4.3 Configuration Management

This section describes the configuration management tools used by DAAC operators:

1. ClearCase
2. DDTS
3. XRP-II (Baseline Manager)
4. XRP-II (Inventory Logistical Management {ILM})
5. Tivoli/Courier
6. FLEXlm
7. iFOR/LS

This page intentionally left blank.

4.3.1 ClearCase

ClearCase, a COTS product, is used to perform the Software Change Manager functions. It provides the M&O staffs at the SMC and the DAAC sites the capability to organize and store software in a software library, to control software changes and versions, and to assemble sets of software for release purposes. Specifically, ClearCase is to regulate access to these files; to control and log file changes; to perform builds of software and keep a record of the build's content (files, compiler, and other resources used). ClearCase is used to perform a variety of operator functions. The most frequently used functions are listed in Table 4.3.1-1.

Table 4.3.1-1. Common ECS Operator Functions Performed with ClearCase (1 of 2)

Operating Function	Command/Script or GUI	Description	When and Why to Use
Establish a View	setview /GUI (View Menu, Set Option) selection	The command or the GUI selection activates a view and allows user access to controlled files.	(1) used to activate a reproducible workspace for a developer for working with specific file versions and directories for a task (2) used to assemble sets of software for release purposes
Checkout Software	Checkout/GUI (Checkout) selection	The command or the GUI creates a view private, modifiable copy of a file version	Used when a developer/maintainer needs to modify an existing version of software
Checkin Software	checkin/GUI (Checkin) selection	The command or the GUI selection creates a permanent new version of a file	Used when a developer/maintainer needs to return a modified file version to the ClearCase software library
perform software builds	ClearMake/GUI (Building menu)	(1) ClearCase build utility that automates the process of software builds (2) facilitates derived object sharing (3) creates a record of the build so that it can be repeated	Used when it's time to build, integrate and/or test developed/revised software

Table 4.3.1-1. Common ECS Operator Functions Performed with ClearCase (2 of 2)

Operating Function	Command/Script or GUI	Description	When and Why to Use
display the mount-point and storage directory of all VOBs on the system	cleartool lsvob/GUI (Admin menu)	ClearCase utility that will determine and display default/ specified information about all of the VOBs that have been established	(1) Used to list one or more VOBs (2) Used to determine which VOBs are mounted (3) Used to determine which VOBs are private or public (refer to *ClearCase Reference Manual* for details)

4.3.1.1 Quick Start Using ClearCase

This section presents an orientation of ClearCase. ClearCase terminology such as VOB (versioned object base, public storage area for files) and views (operator private storage), etc., is used throughout this section. Refer to the *ClearCase User's Manual* for both a more detailed overview of ClearCase and an explanation of the terminology used. Refer to the *ClearCase User's, Administrative, and Reference Manuals* for detailed explanations of ClearCase functionality.

4.3.1.1.1 Command Line Interface

To invoke ClearCase from the command line prompt type:

/usr/atria/bin/xclearcase.

4.3.1.2 ClearCase Graphical User Interface

ClearCase has a command line interface (CLI) and a graphical user interface (GUI). The GUI enables execution of all the common functions and facilitates graphical examination of the version history of objects in VOBs. When ClearCase is invoked, a Transcript screen as shown in Figure 4.3.1-1 appears. The Transcript screen displays status of functions executed and displays warning and error messages. It automatically appears when the status of an activity needs to be displayed.

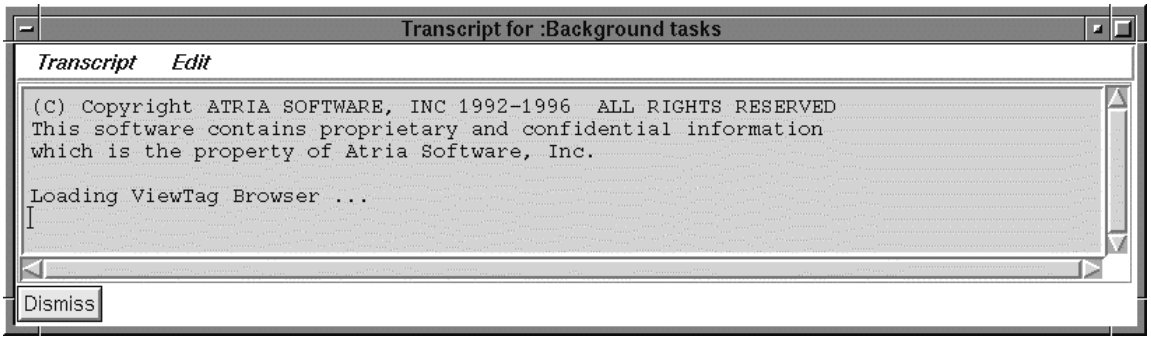


Figure 4.3.1-1. ClearCase Transcript Screen

4.3.1.2.1 Establish View

Operator access to versions of files in a VOB is facilitated by a view. When ClearCase is initiated, the operator is asked to select a view. Available views are displayed in the View Tag Browser Screen as shown in Figure 4.3.1-2. Select a view by highlighting the desired view and clicking the “Ok” button at the bottom of the screen.

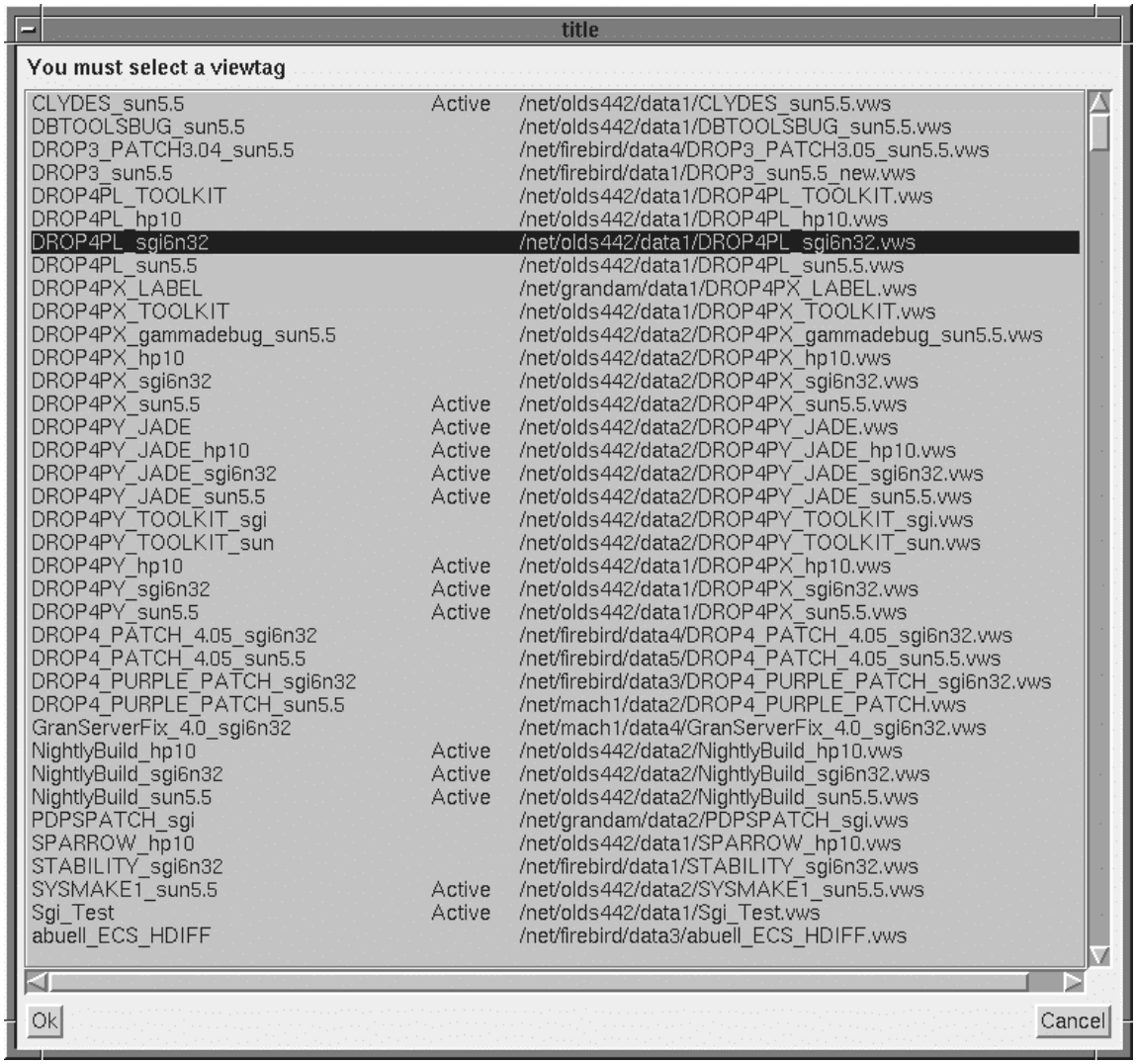


Figure 4.3.1-2. View Tag Browser Screen

After a View is selected the ClearCase File Browser screen, the main GUI screen, appears as shown in Figure 4.3.1-3. The File Browser screen displays the current directory name just below the toolbar and displays the contents of the directory in the space below the directory's name. A variety of GUI-oriented functions can be initiated from this screen. Explanations of the menu bar and the toolbar items are provided in Chapter 3 of the *ClearCase User's Manual*.

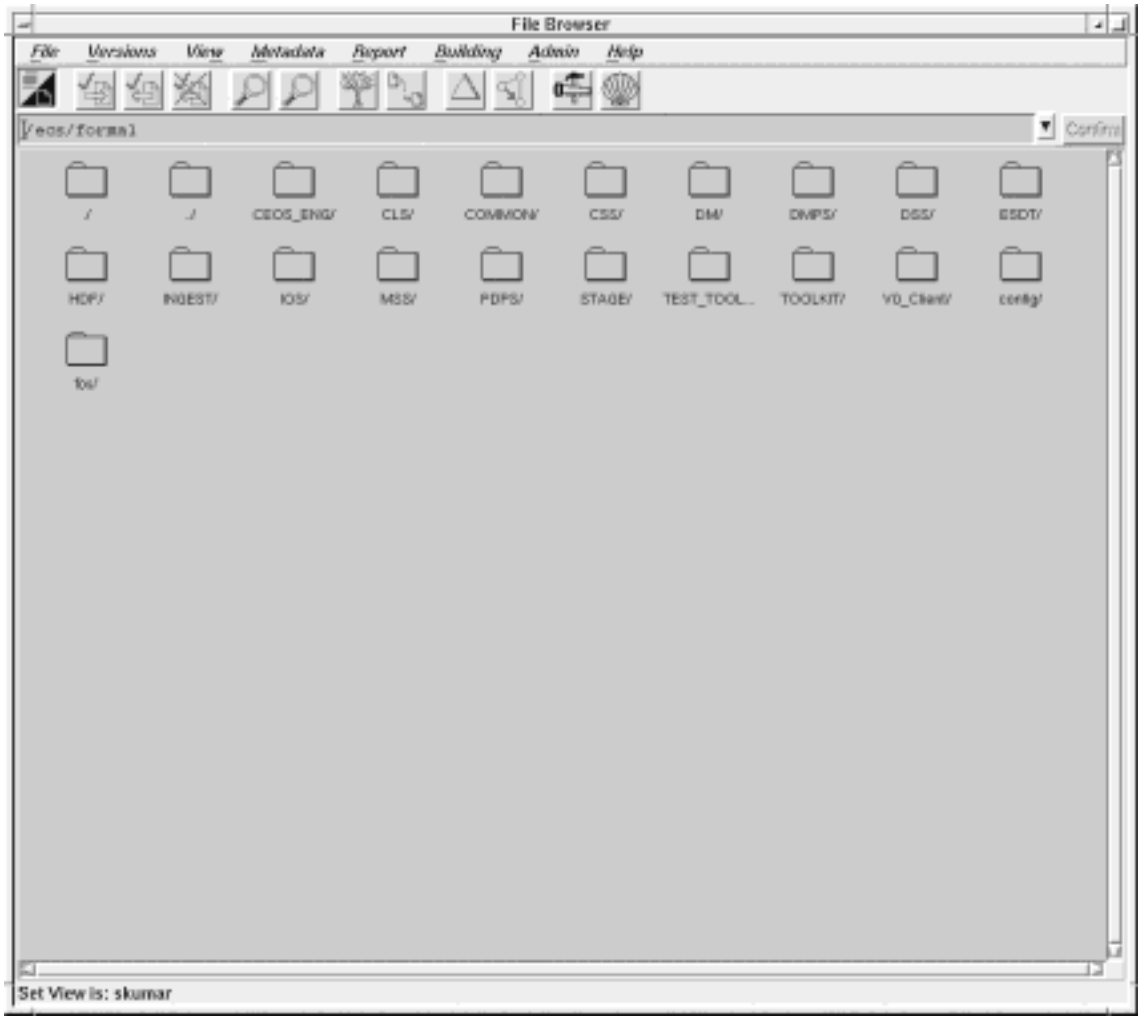


Figure 4.3.1-3. ClearCase File Browser Screen (Main Screen)

4.3.1.2.2 Checkout Software

Software file versions in a ClearCase VOB are in a read-only state. An operator must check a file version out of the VOB before any editing of the file version can be accomplished. Check out a file version by selecting the file and clicking the checkout icon on the toolbar; another way is to select the file, click the Version menu, the Version's menu "Checkout" option, then one of the "Reserved or Unreserved" options shown in Figure 4.3.1-4.

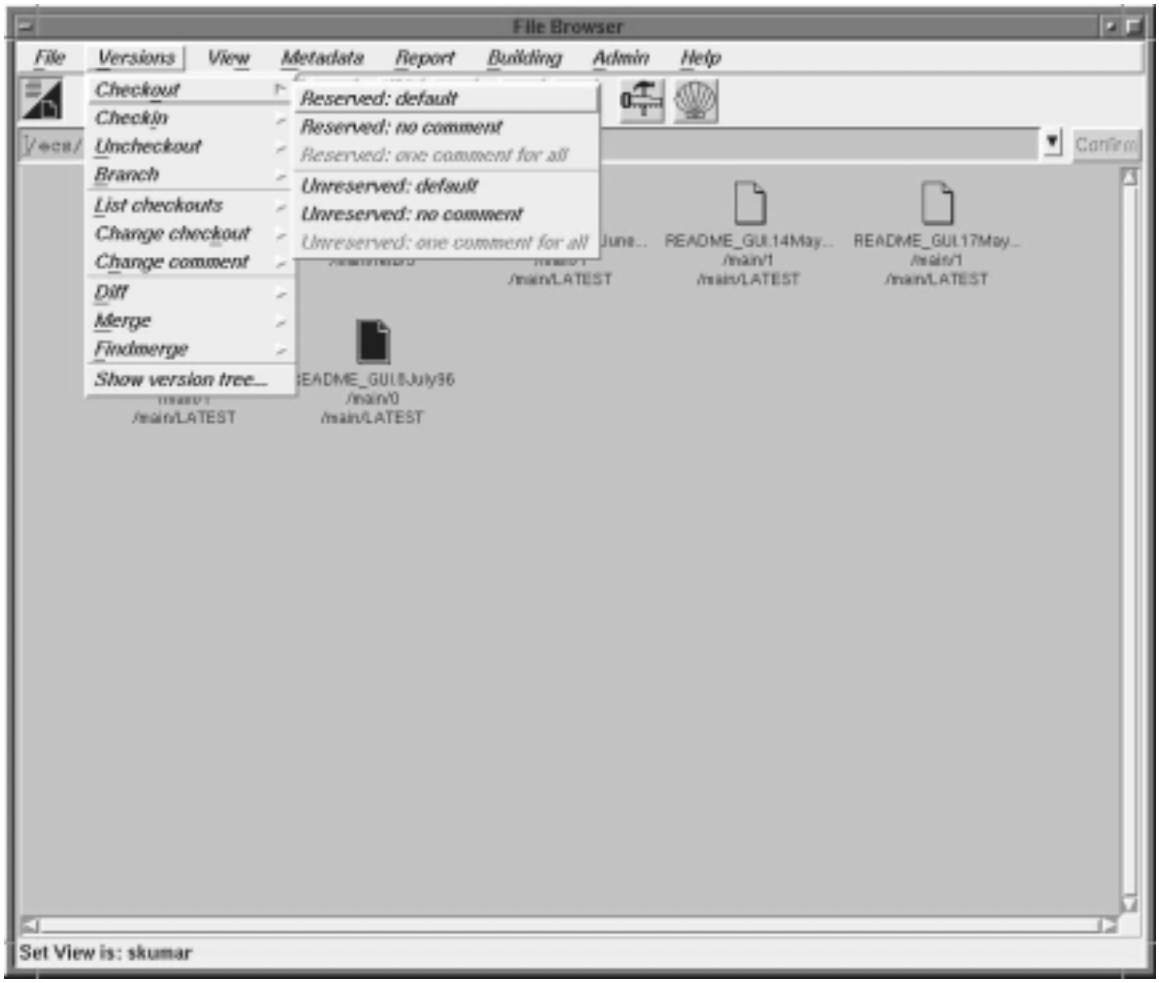


Figure 4.3.1-4. ClearCase File Browser Screen (Checkout Software)

If the operator is authorized and the view is set up to checkout files, then the checkout process continues and the ClearCase Prompt screen appears as shown in Figure 4.3.1-5. This screen gives the operator the opportunity to enter an explanation of why the file version is being checked out.

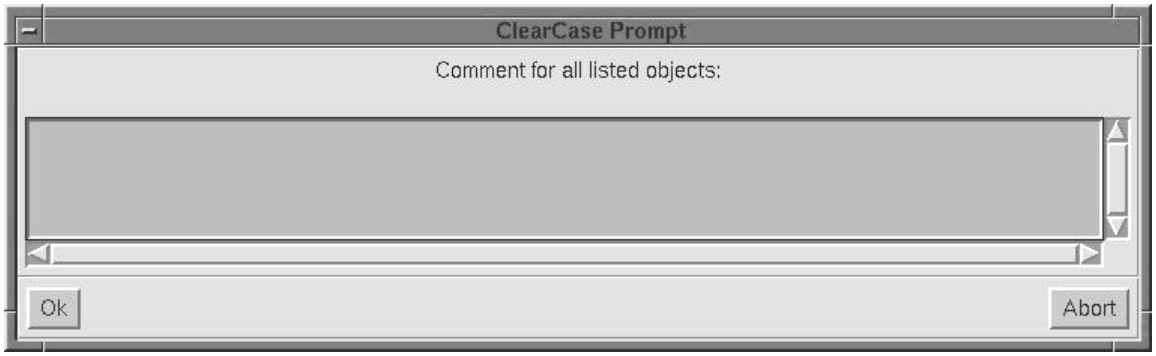


Figure 4.3.1-5. ClearCase Prompt Screen (Checkout Comment)

After appropriate comments are entered, click the "Ok" button and ClearCase adds the comments to the historical record for the file version. The File Browser screen reappears as shown in Figure 4.3.1-6 and it shows that the file version has been checked out. Note, the check mark for file, README_GUI.8.July96, has been added. Addition of the check mark is an indication of a successful checkout.

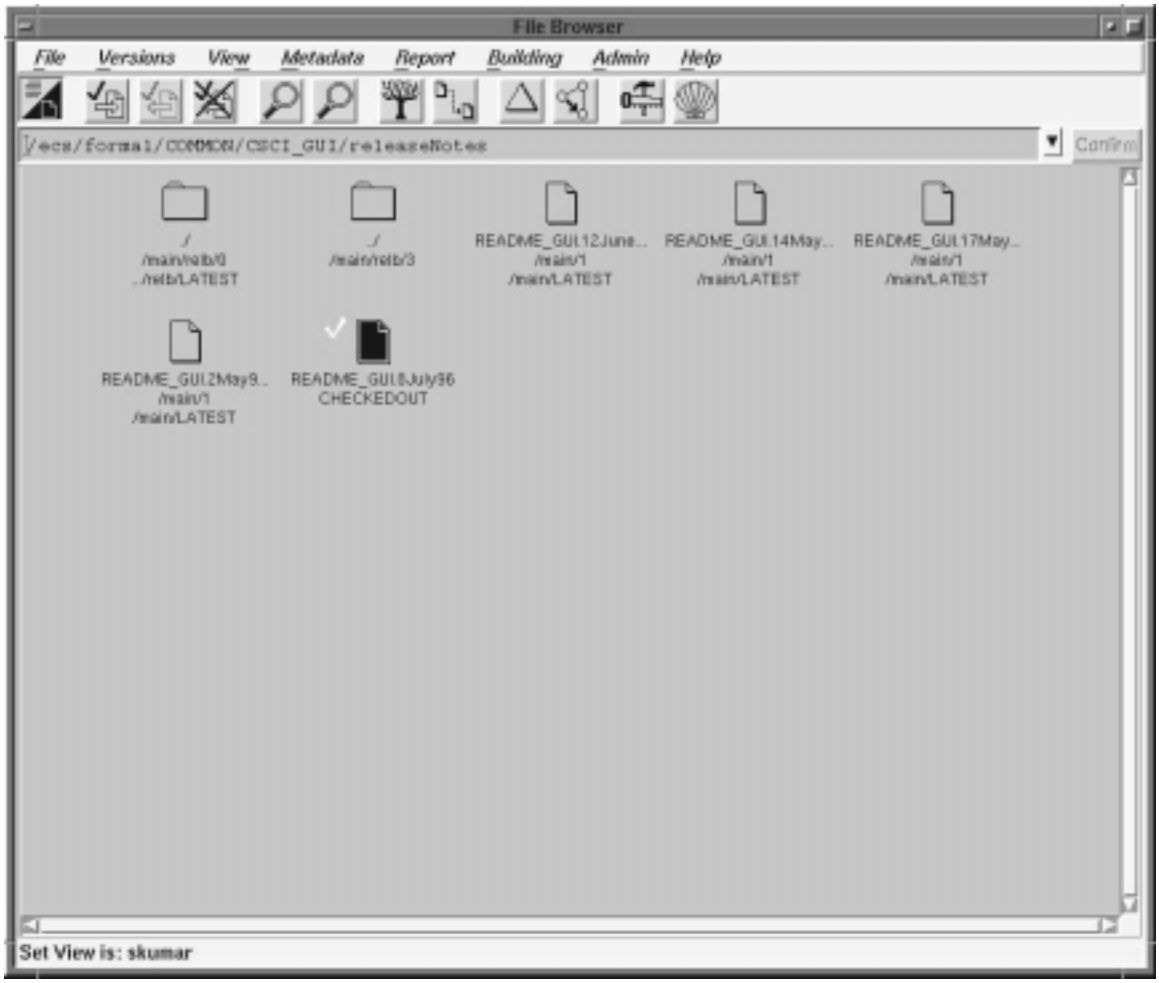


Figure 4.3.1-6. File Browser Screen (File Version Checked-Out)

To verify that the file version has been checked out on a branch, click the Vtree icon on the File Browser toolbar. This activates the Version Tree Browser and it displays a graphical image of the branching as shown in Figure 4.3.1-7. Note, the checked out file version has been placed on the main branch "/main" in the example below.

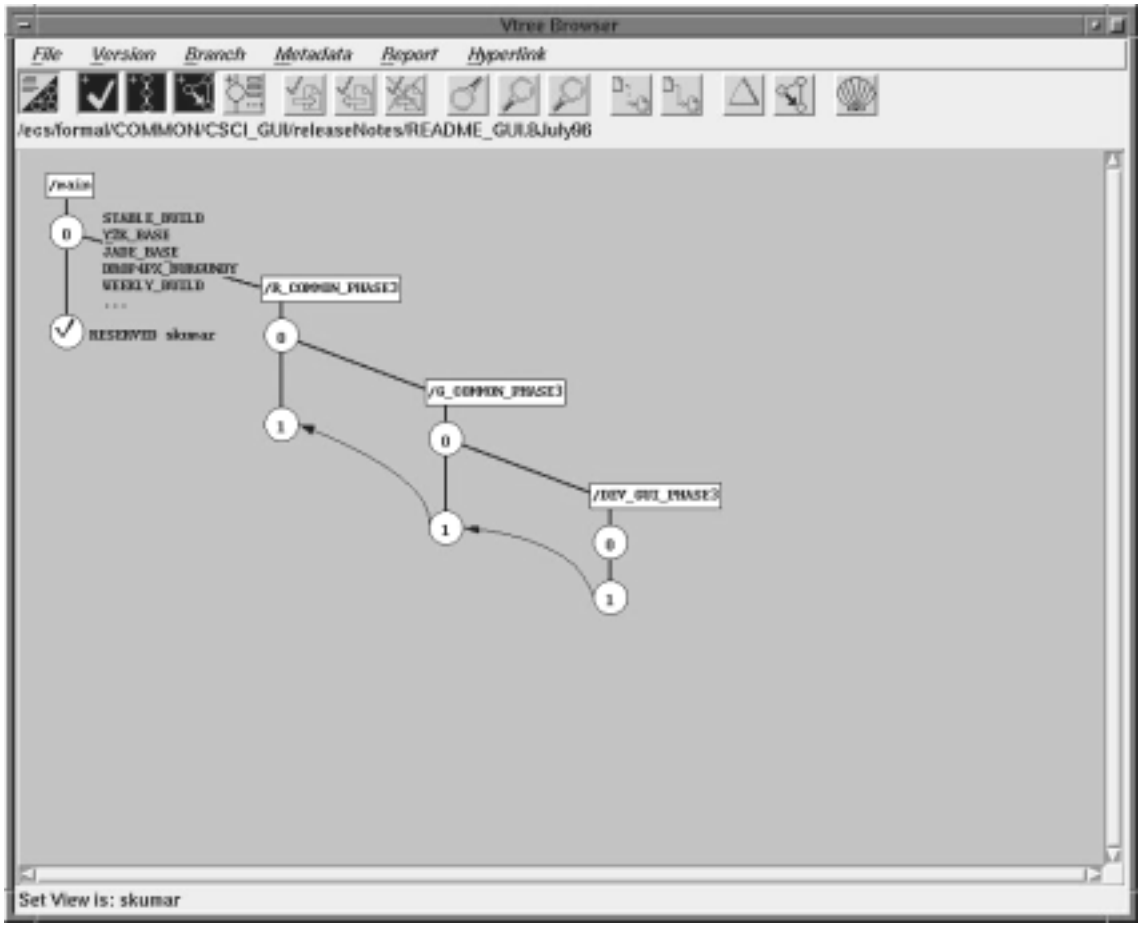


Figure 4.3.1--7. ClearCase Version Tree Screen

4.3.1.2.3 Checkin Software

A software file version checked out of the ClearCase library for editing must be checked in to the library for it to become a new version of the original file. Click the checkin icon on the File Browser toolbar to initiate the check-in process. A ClearCase Prompt box appears as shown in Figure 4.3.1-8 to facilitate the adding of comments at check in to the file version's record. Enter a comment and click the "Ok" button to continue or just click the "Ok" button to continue the check-in process.

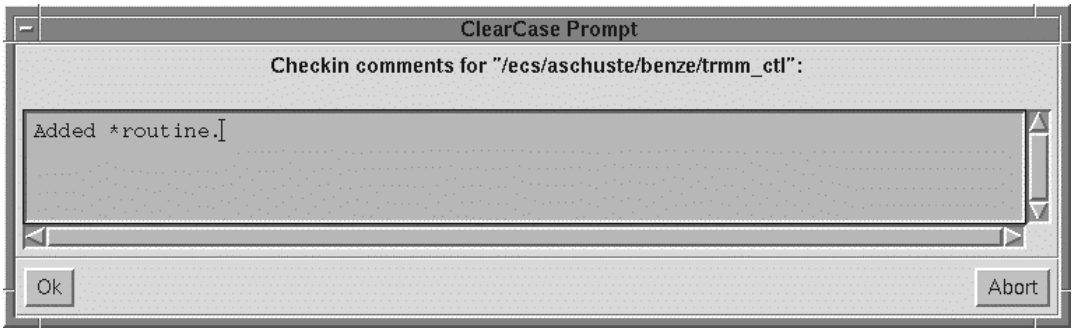


Figure 4.3.1-8. ClearCase Prompt Screen (Checkin Comment)

The File Browser screen reappears as shown in Figure 4.3.1-9 and it shows that the file version has been checked in. Note, the check mark for file, README_GUI.8July96, has been removed. Removal of the check mark is an indication of a successful checkin.

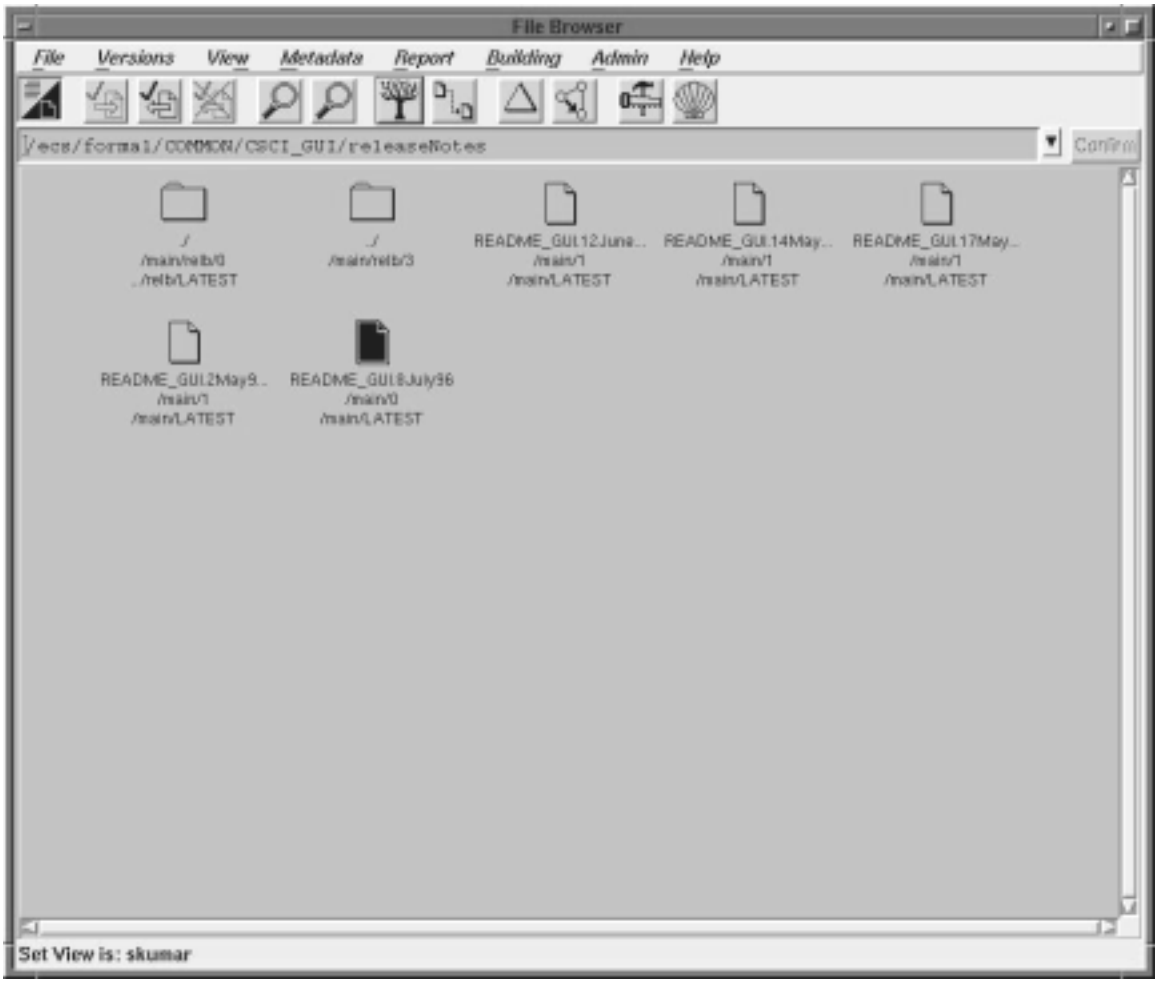


Figure 4.3.1-9. ClearCase File Browser Screen (File Checked-In)

4.3.1.2.5 Perform Build

The Building menu on the File Browser as shown in Figure 4.3.1-10 is used to produce derived objects. The Building menu is the GUI version of the command line interface build utility called clearmake. Reference the *ClearCase User's Manual* and the clearmake section of the *ClearCase Reference Manual* for information on the use of this capability.

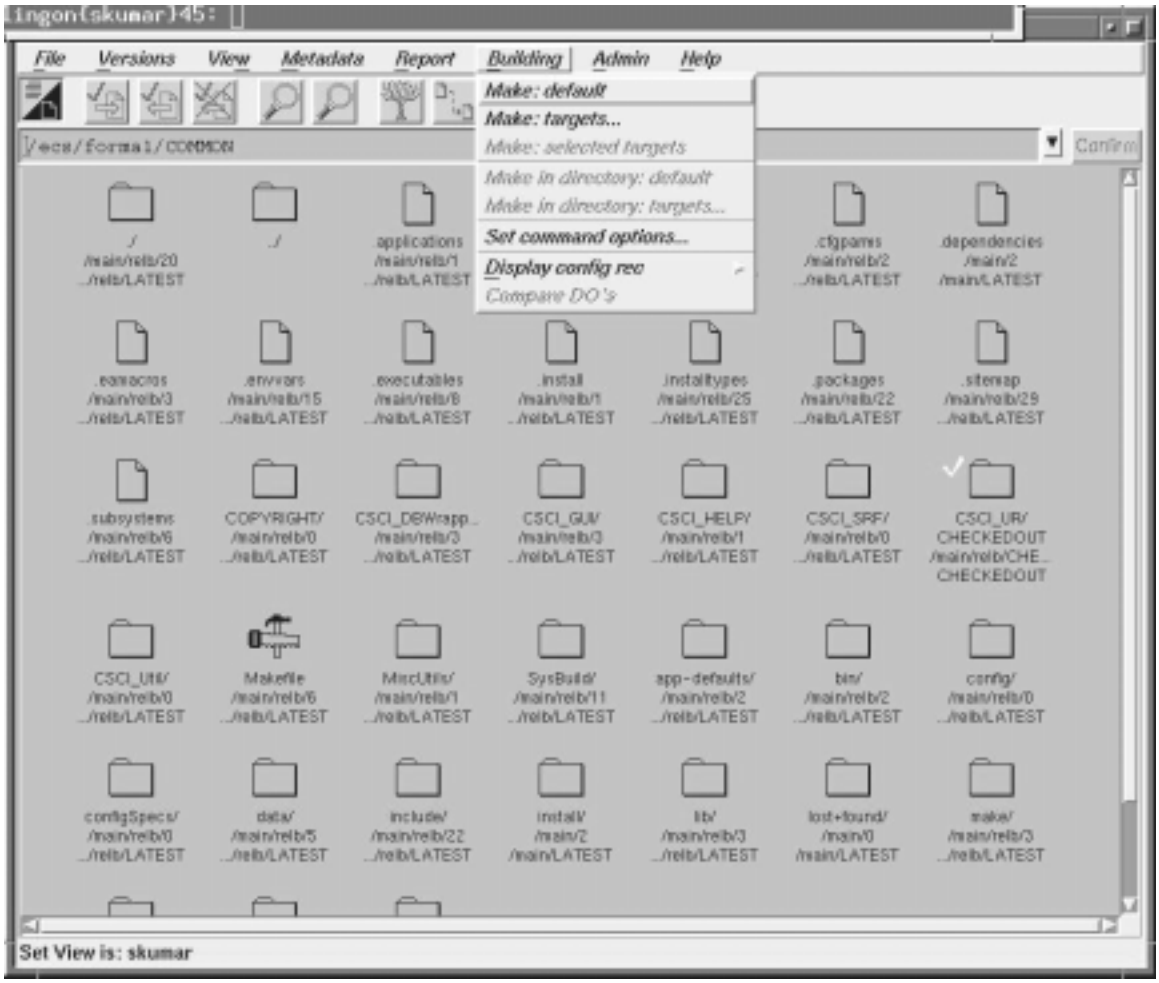


Figure 4.3.1-10. File Browser Screen (Build Menu)

4.3.1.3 Required Operating Environment

For all COTS packages, appropriate information on operating system environments, tunable parameters, environment variables, and a list of vendor documentation can be found in a CM controlled ReadMe file for each product. To find the ReadMe file for ClearCase, use the XRP Baseline Manager to determine where in ClearCase the ReadMe file resides.

4.3.1.4 Databases

ClearCase data is stored in versioned object bases (VOB) and views. Reference the *ClearCase Administrator's Manual* for a detailed description of the ClearCase databases.

4.3.1.6 Outputs

Reference the *ClearCase User's Manual* for a description of the ClearCase outputs.

4.3.1.7 Event and Error Messages

ClearCase creates an event record for most of the processing activities that modify the VOB and stores it in the VOB database. These records are linked to the derived objects. These records provide a chronological event history for the objects. Reference the *ClearCase Reference Manual* for detailed information about logging of ClearCase events. The reference manual describes the contents of an event record, VOB objects that will have event histories, and ClearCase operations that cause event records to be written.

ClearCase error messages indicate that a problem has occurred. Some errors are user correctable and others require correction by the operations staff. In both cases, ClearCase records error and status information in its log files. Reference the *ClearCase Reference Manual* for a description of the error logs, the ClearCase programs that use them, error logs location, and their format.

4.3.2 Distributed Defect Tracking System (DDTS)

The Distributed Defect Tracking System (DDTS), is the COTS product serving as the ECS Change Request Manager (CRM). DDTS provides the functionality necessary to compose, submit, report, and track status of proposals to change the ECS baseline. It provides the capability to register Configuration Change Requests (CCR) electronically. A CCR is a document that requests, justifies a need for, and defines a change to a configuration item (CI). A CI is an aggregation of hardware, firmware, software, or any of its discrete portions, which satisfies an end use function and is designated for configuration control.

DDTS prompts for relevant information, assigns an identifier, and mails notification of the newly submitted requests to designated personnel. As the CCRs advance through approval and implementation processes, DDTS maintains status, disposition, resolution, and closure information as entered by the M&O staff. It sends notification to designated personnel when the status of the CCR record changes and makes data available for viewing by designated staff members. DDTS also keeps track of Non-Conformance Reports (NCRs) for M&O Sustaining Engineers. DDTS is used to perform the operator functions listed in Table 4.3.2-1.

Refer to the *ClearDDTSUser's Manual* for additional information about DDTS.

Table 4.3.2-1. Common ECS Operator Functions Performed with DDTS

Operating Function	GUI	Description	When and Why to Use
Viewing CCR	DDTS Main Screen	Operator views the contents of the selected CCR by highlighting the CCR in the CCR Index.	To quickly view the contents of CCRs in the Index.
Submit CCR	DDTS Main Screen	• Operator initiates CCR record submission process by clicking the "Submit" button. • An initial set of data fields appears for entry of data.	Whenever there is a new CCR to be entered.
Change the Status (state) of the CCR	DDTS Main Screen	• Operator changes the status of a CCR as it moves through its lifecycle states by clicking Change_State" menu and selecting the state desired. • Each state transition causes a new set of data fields to appear for entry of data.	Whenever the activities of a particular state have been completed and it is time to move to the next state.
Modify CCR	DDTS Main Screen	Operator updates a previously entered CCR by clicking the "Modify" menu and selecting the "modify record" option.	To change previously entered data and/or to enter data into fields previously left blank.
Print CCR	DDTS Main Screen	Operator sends a copy of CCR(s) to a monitor screen, printer, or to a designated file by clicking "Print" button and selecting print options.	To obtain a hard or soft copy of a CCR or all of the CCRs in the CCR index.

4.3.2.1 Quick Start Using DDTS

This section presents an orientation of DDTS. Additional information can be found in the *ClearDDTSUser's Manual.*

4.3.2.1.1 Command Line Interface

To invoke DDTS from the command line prompt, type

/usr/ecs/OPS/COTS/ddts/bin/xddts

4.3.2.2 DDTS Main Screen

The DDTS screen (Figure 4.3.2-1) is the main screen. It consists of three major areas: the CCR Index Display, which shows an index of CCRs; the CCR Record page, which displays some of the content of the highlighted CCR in the Index; and the Enclosure Display, which shows the initial set of enclosures for a CCR. All DDTS functions are initiated from this screen.

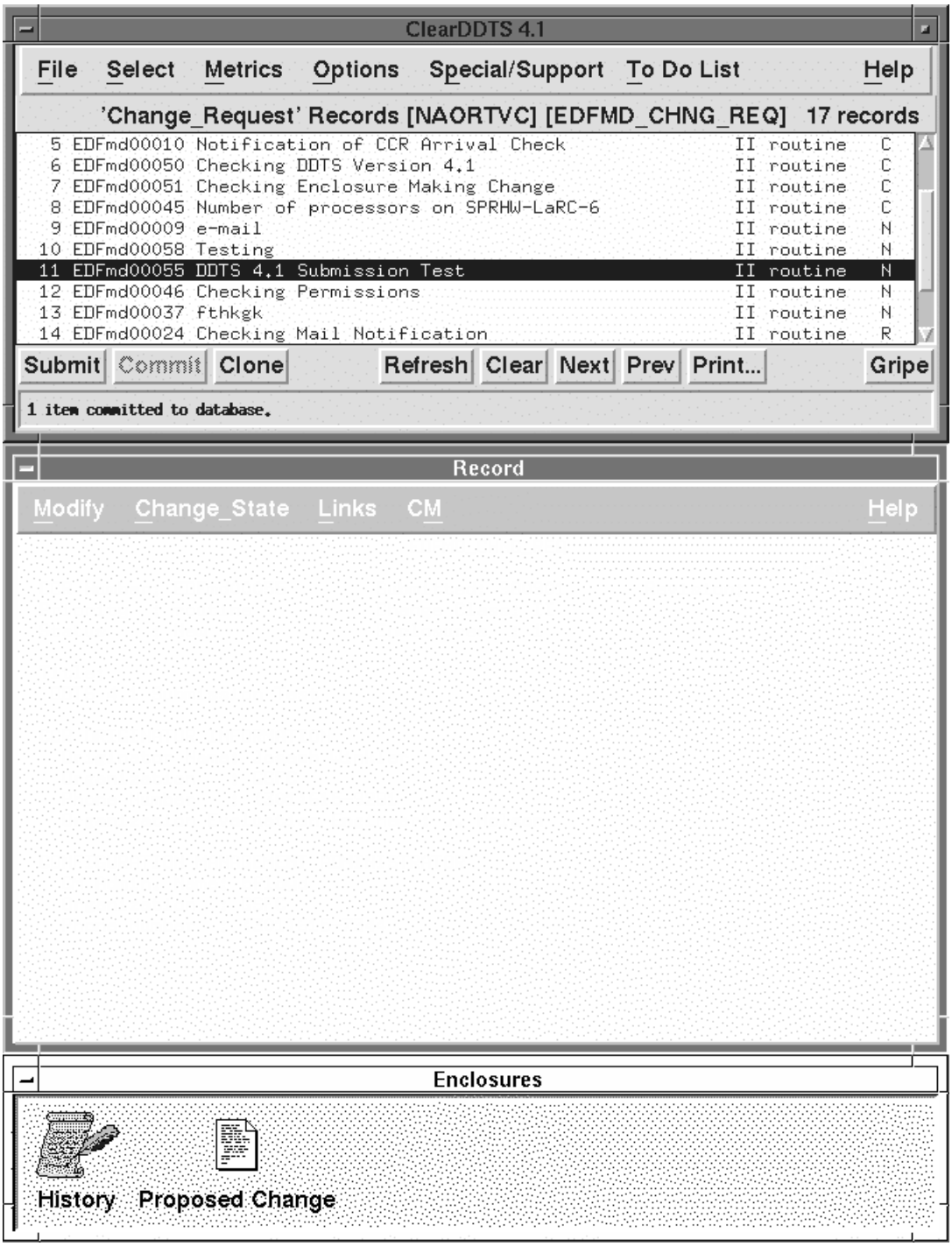


Figure 4.3.2-1. DDTS Main Screen

Reference the *ClearDDTSUser's Manual* for information concerning the menus and buttons on the DDTS Main Screen.

4.3.2.2.1 DDTS Submit CCR

Clicking the Submit button on the main screen will bring up the "Submit A New Change Request" screen as shown in Figure 4.3.2-2. This screen enables the operator to select a class of projects (the Change Request Class is the default class) and a specific project (group of CCRs within the selected class) to which he/she wants to add a CCR. Reference Chapter 2 of the Clear*DDTS User's Manual* for a detailed explanation of the terms, class and project. The procedures described herein are applicable to any class and project.

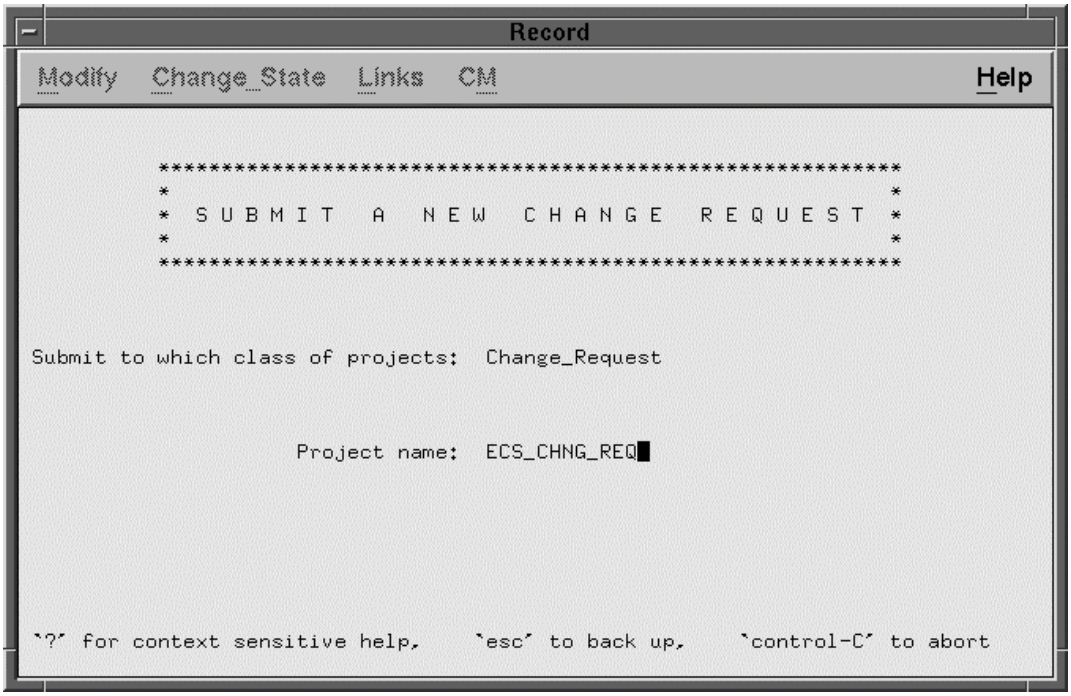


Figure 4.3.2-2. Initial Submit Record Screen

The initial Submit Record Screen has two areas: CCR selection criteria area (middle section of the screen) and a help information area (last line of the screen). Information entered into the selection criteria area will determine what set of CCR fields are selected for data entry purposes. The help information area explains how to get an explanation for each of the fields shown, how to move within a screen, and how to terminate the submit process.

Once the operator enters the desired class and project, the CCR page displays the CCR record form as shown in Figure 4.3.2-3. This form enables the operator to enter detailed information concerning the proposed change request.

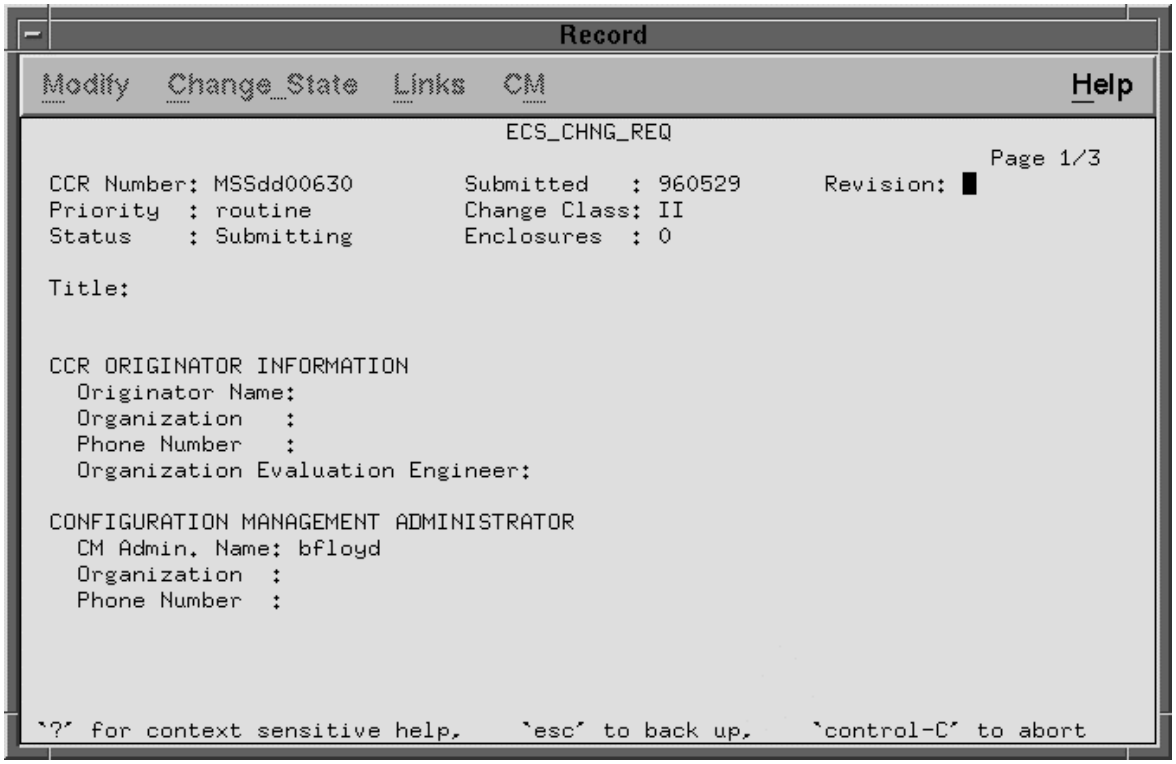


Figure 4.3.2-3. Submit Record Data Fields Screen

Descriptions of the Submit Record fields are listed in Table 4.3.2-2.

Table 4.3.2-2 Submit Record Fields Descriptions (1 of 2)

Field Name	Data Type	Size	Entry	Description
CCR Number	character	10	System generated	a unique identifier for this resource change request
Submitted	date	6	System generated	the date this proposed change was first registered
Revision	character	2	Optional	the current revision/amendment to the proposed change
Priority	character	9	Required	• the urgency with which a proposed change is needed • answer must be one of the following: routine, urgent, emergency • the default is routine

Table 4.3.2-2 Submit Record Fields Descriptions (2 of 2)

Field Name	Data Type	Size	Entry	Description
Change Class	character	2	Required	• classification that distinguishes change requests according to management level needed for approval • answer must be I or II* • the default is II*
Status	character	17	System generated	the stage this proposed change has reached in its lifecycle
Title	character	72	Required	the nomenclature used to identify the proposed change
Originator Name	character	25	Required	name of the person who is the author of the proposed change
Organization	character	30	Required	name of the originator's organization
Phone Number	character	13	Required	phone number of the originator
Organization Evaluation Engineer	character	25	Required	name of the person who initially determines whether or not the proposal has merit and should be entered into the DDTS database
CM Admin. Name	character	8	System generated	• name of the individual who registered this proposed change/enters the proposed change into the DDTS database • note: DDTS uses User's Login ID
Organization	character	5	Required	• name of the CM administrator's organization • answer must be one of the following: ASF, EDC, EOC, GSFC, JPL, LaRC, NSIDC, ORNL, SMC
Phone Number	character	13	Optional	phone number of CM Administrator

*__Class I Change__: an out-of-contract scope change that affects the form, fit, or function of the ESDIS Project CCB controlled items (technical baselines, technical requirements, contractual provisions such as cost and schedule, etc.). A Class I change must be approved by the ESDIS Project CCB.

*__Class II Change__: an in-scope contract change that does not fall within the definition of a Class I change (e.g., a change in documentation only, a change in software code to comply with design and performance requirements prior to product delivery, a change in hardware materials). A Class II change can be dispositioned by any appropriate level configuration control board (CCB) with the exception of Class II CCRs against documents controlled and maintained by ESDIS.

After all of the CCR record fields have been traversed, a Proposed Change Enclosure Screen is displayed (see Figure 4.3.2-4). This enclosure is used to hold additional information about a proposed change. It enables the operator to enter a free text description of the perceived need or problem and a proposed solution. For more information on the enclosure screen see Chapter 6 (Enclosures Section) of the *ClearDDTS User's Manual.*

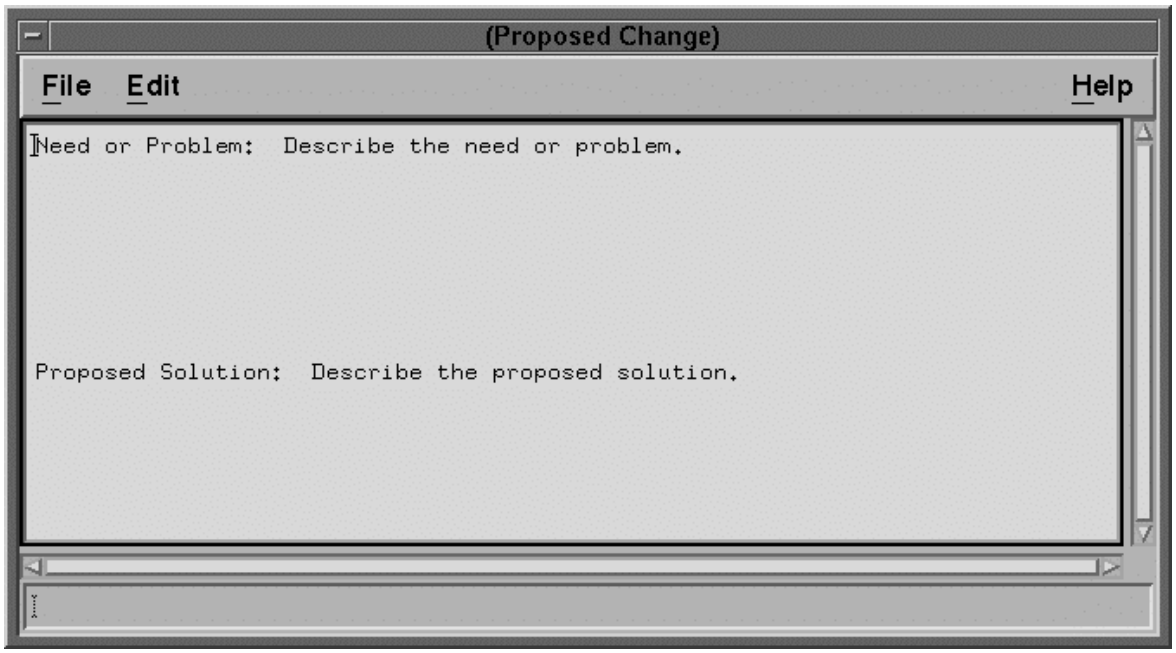


Figure 4.3.2-4. Proposed Change Enclosure Screen

Upon completion of entering the proposal information, clicking the file menu on the enclosure screen and selecting its "Save Changes & Dismiss Editor" option saves the contents of the enclosure. When the main screen display reappears, clicking the "Commit" button stores the CCR record into the DDTS database.

4.3.2.2.2 DDTS Change State of CCR

The first status (state) assigned to a CCR after it is committed to the DDTS database is "New". Refer to the upper left corner of the center section of Figure 4.3.2-5 for the current status of the CCR. When it is time to move the CCR to its next lifecycle state, the Change_State Menu

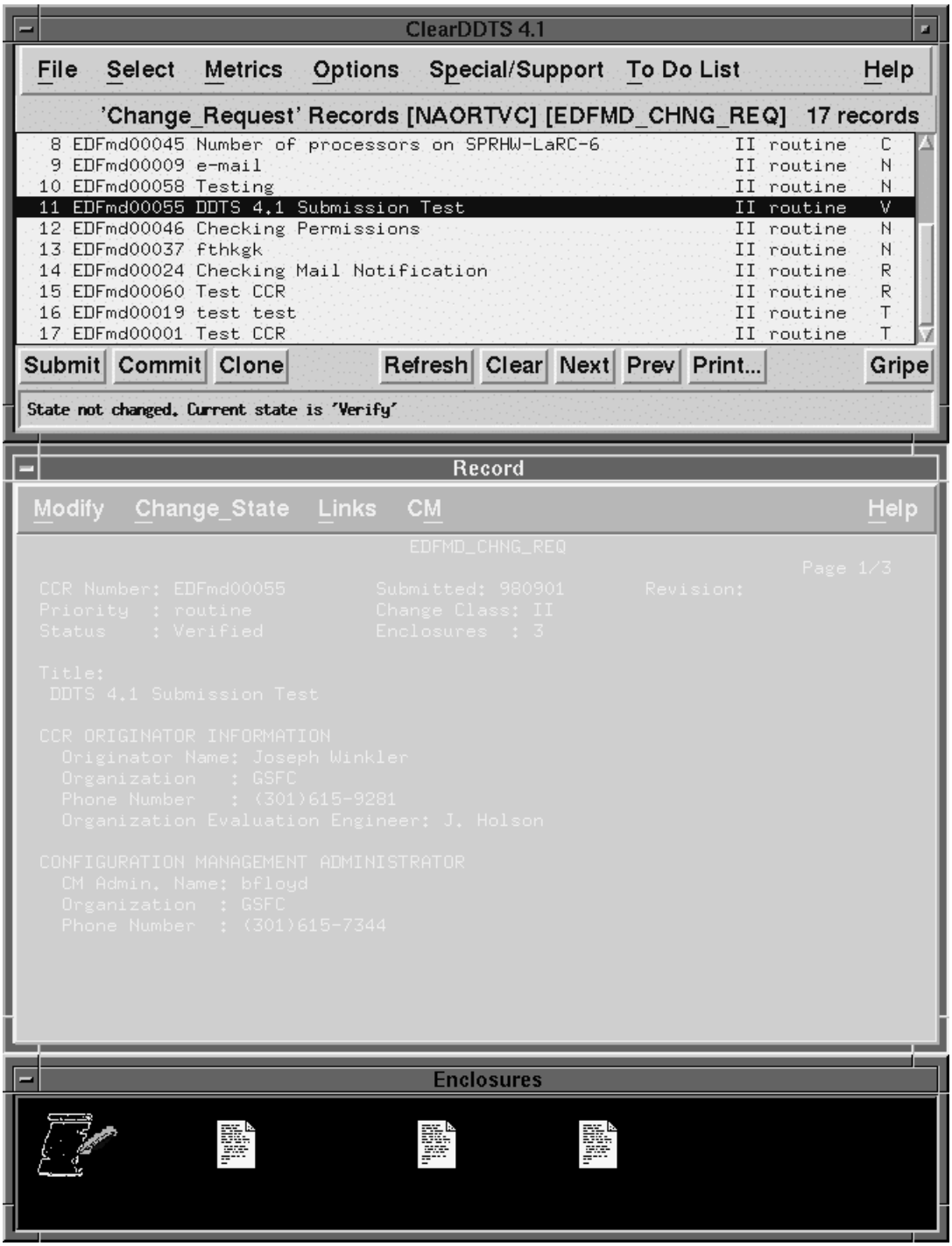


Figure 4.3.2-5. Main Screen (Change_State)

on the main screen (Figure 4.3.2-6) is used. Clicking on the Change_State Menu causes the available state options for the CCR record to appear as shown in Figure 4.3.2-6.

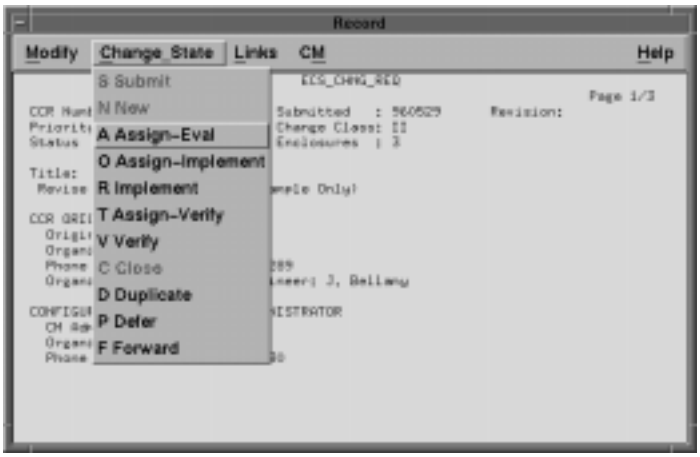


Figure 4.3.2-6. Change_State Menu Screen

The Change_State Menu allows the operator to select the next state to be assigned. After the state Assign-Eval (state entered when the change request is being assigned to an engineer for evaluation/analysis), is selected, the associated data fields (if there are any) for this new state appear as shown in Figure 4.3.2-7.

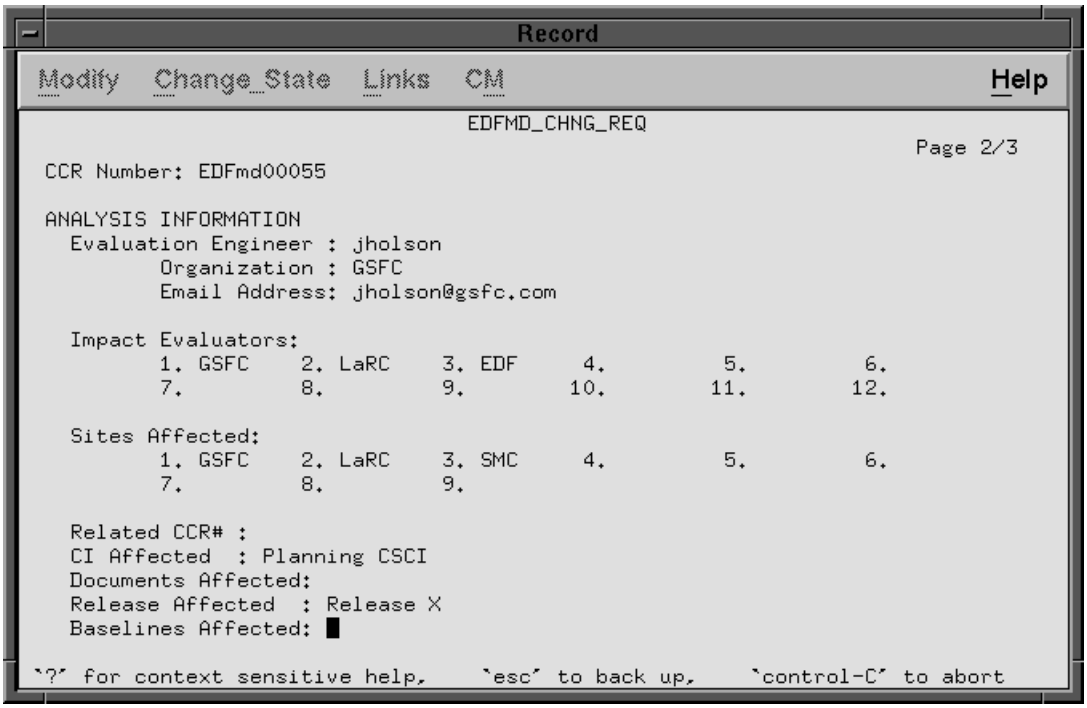


Figure 4.3.2-7. New State's Fields Screen

The new state's CCR form allows the operator to enter data into the newly displayed fields. Descriptions of the Assign-Eval fields are listed in Table 4.3.2-3.

Table 4.3.2-3. Assign-Eval Fields Descriptions

Field Name	Data Type	Size	Entry	Description
Evaluation Engineer	character	8	Required	• name of the responsible engineer designated to analyze the proposed system change • use Login user name of the engineer
Organization	character	5	Required	• name of the evaluation engineer's organization • answer must be one of the following: SEO, GSFC, LaRC, ASF, EDC, JPL, NSIDC, ORNL, SMC, EOS
Eval. Engr. Email Address	character	25	Optional	electronic mail address of the evaluation engineer
Impact Evaluators (evaluators 1 -12)	character	5	Optional	• collection of names of organizations designated to assess the impact of this proposed change • answer(s) must be from the following: SEO, ESDIS, GSFC, LaRC, ASF, EDC, JPL, NSIDC, ORNL, SMC, EOC, EDF
Sites Affected (sites 1-9)	character	5	Optional	• the collection of names of ECS sites affected by this proposed change • answer(s) must be from the following: SMC, GSFC, LaRC, ASF, EDC, JPL, NSIDC, ORNL, EOC
Related CCR#	character	10	Optional	the number of another CCR that is related to/associated with this CCR
CI Affected	character	15	Optional	the identifier of the principal configuration item affected by this proposed system change
Docs. Affected	character	56	Optional	the document identifiers of the system documents affected by the proposed system change
Release Affected	character	10	Optional	the ECS release in which the proposed change is targeted for implementation
Baselines Affected	character	56	Optional	the identifiers of system baselines affected by the proposed change

After all of the Assign-Eval fields have been traversed, an Impact Summary Enclosure Screen (See Figure 4.3.2-8) is displayed. This enclosure is used to hold free text information concerning the impact of the proposed change. The enclosure screen allows the operator to enter additional details in the same manner as described previously. After the enclosure has been saved, clicking the "Commit" button adds the new state's data to the database. The selected state, "Assigned-Eval", is now shown as the current state (Status) of the CCR record.

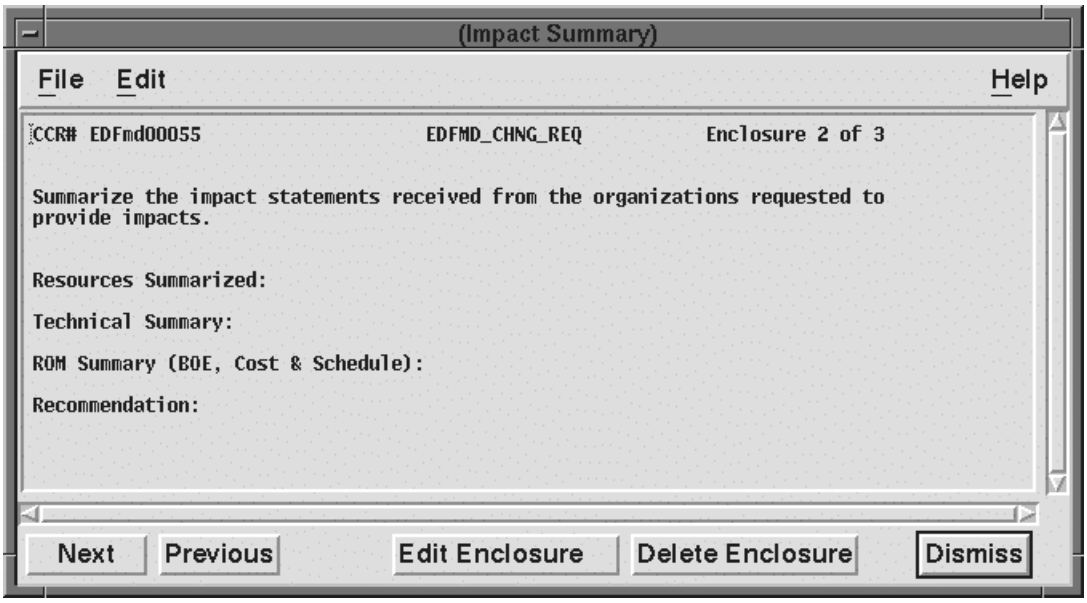


Figure 4.3.2-8. Impact Summary Enclosure Screen

The next state in sequence on the Change_State Menu is the Assign-Implement state. The Assign-Implement state (state entered when the change request is being assigned to an engineer for development) data fields are shown in Figure 4.3.2-9.

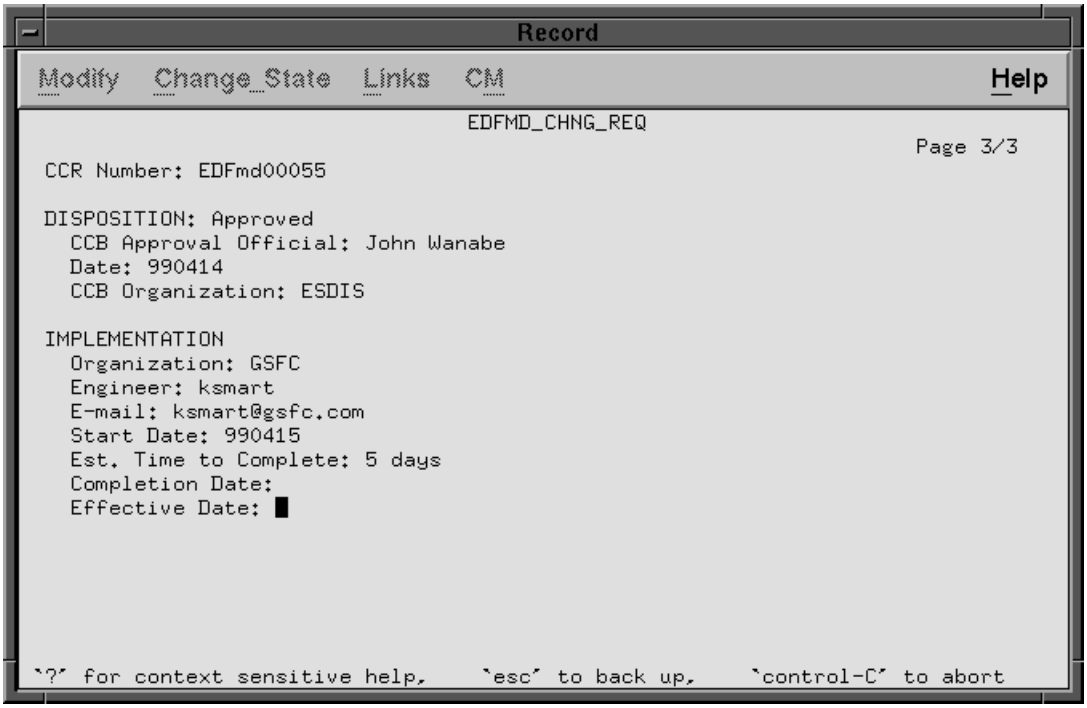


Figure 4.3.2-9. Assign-Implement State Screen

Descriptions of the Assign-Implement state fields are shown in Table 4.3.2-4.

Table 4.3.2-4. Assign-Implement Fields Descriptions

Field Name	Data Type	Size	Entry	Description
disposition	character	14	Required	• final decision made by a designated approval official concerning this proposed change • answer must be one of the following: Approved, Approved_w/cmt, Disapproved, Withdrawn, Deferred
CCB Approval Official	character	25	Required	name of the individual whose decision is reflected in the proposed change's disposition
CCB Approval Date	date	6	Required	• date the final decision was made concerning this proposed change • required format is yymmdd
CCB Org.	character	5	Required	• name of the organization whose configuration control board has authority to approve the change request • answer must be one of the following: ESDIS, SMC, GSFC, LaRC, ASF, EDC, JPL, NSIDC, ORNL
Implementation Organization	character	5	Required	• name of the organization assigned to implement this proposed change • answer must be one of the following: SEO, GSFC, LaRC, ASF, EDC, JPL, NSIDC, ORNL
Implement. Engineer	character	8	Required	• name of the responsible engineer designated to implement the proposed system change • use Login user name of engineer
E-mail Address	character	20	Optional	electronic mail address of the implementing engineer
Start Date	date	6	Required	• date implementation activity is to begin • required format is yymmdd
Estimated Time to Complete	character	20	Optional	estimated time it will take to develop and unit test proposed change in days or months
Completion-Date	date	6	Optional	• date that the proposed change was completed • required format is yymmdd
Effective Date	date	6	Optional	• date that the proposed change is to go into operation • required format is yymmdd

After the Assign-Implement fields have been traversed, the Resolution Enclosure Screen (See Figure 4.3.2-10) is displayed. This enclosure is used to hold a free text description of the solution for the proposed change request.

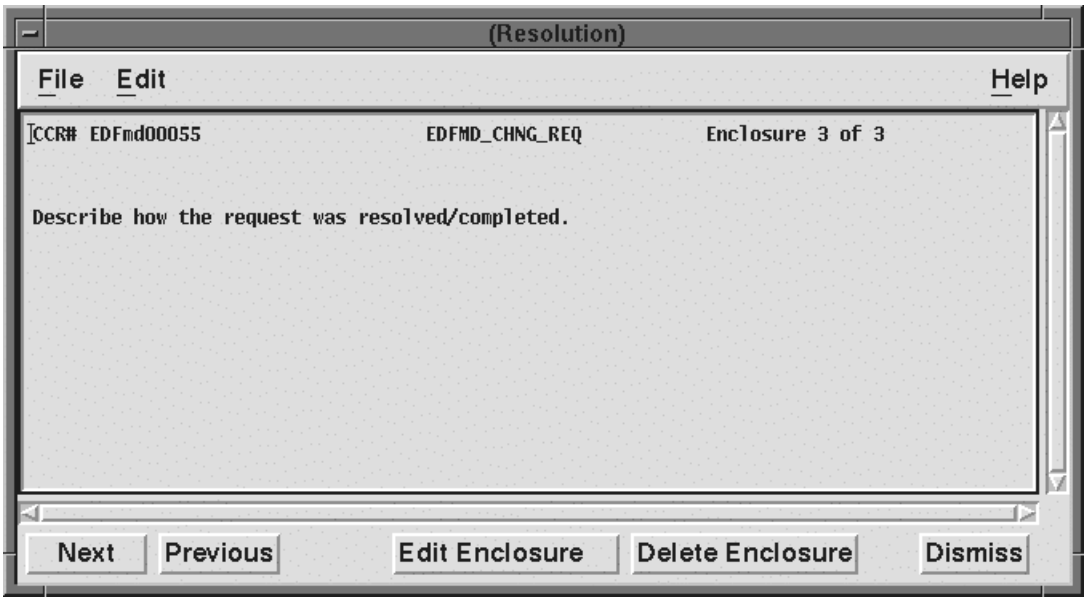


Figure 4.3.2-10. Resolution Enclosure Screen

The Resolution Enclosure Screen allows the operator to enter additional details in the same manner as described previously. After the enclosure has been saved, clicking the "Commit" button adds the Assign-Implement state's data to the database.

The Implement state (state entered when the proposed change has been developed) is the state that follows Assign-Implement on the Change_State Menu. There are no data fields associated with the Implement state. When Implement is selected, the status is simply changed to implement.

Following the Implement state on the Change_State Menu is the Assign-Verify state. The Assign-Verify state (state entered when the developed change is being assigned to an engineer for verification testing), data fields appear under the heading, "TESTING INFORMATION" as shown in Figure 4.3.2-11.

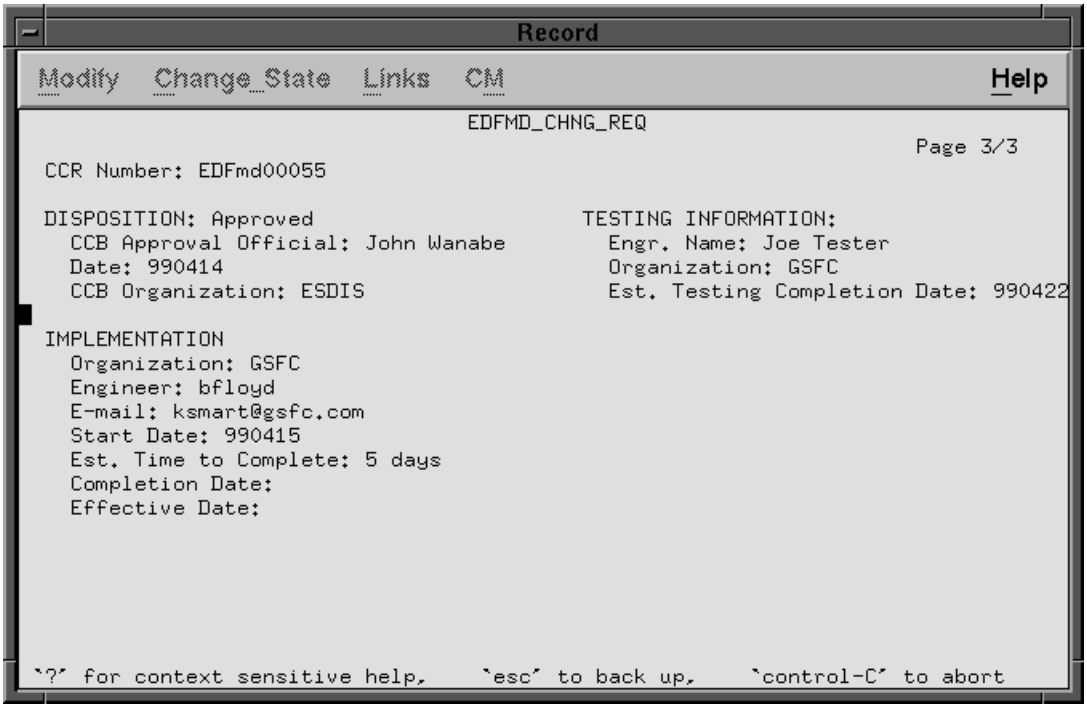


Figure 4.3.2-11. Assign-Verify State Screen

Descriptions of the Assign-Verify state fields are shown in Table 4.3.2-5.

Table 4.3.2-5. Assign-Verify Fields Descriptions

Field Name	Data Type	Size	Entry	Description
Test. Engr. Name	Character	25	Required	Name of the engineer designated to test the system change
Test Org.	character	5	Required	name of the test engineer's organization. Answer must be one of the following: ASF, EDC, EOC, GSFC, JPL, LaRC, NSIDC, ORNL, SMC
Est. Testing Completion Date	date	6	Optional	the date that the tester expects to have completed the testing activity. Required format is yymmdd.

Following the Assign-Verify state on the Change_State Menu is the Verify state which is the state entered when a developed change has been tested and verified that it functions properly. The "Verify" state data fields appear under the heading, "VERIFICATION INFORMATION" as shown in Figure 4.3.2-12.

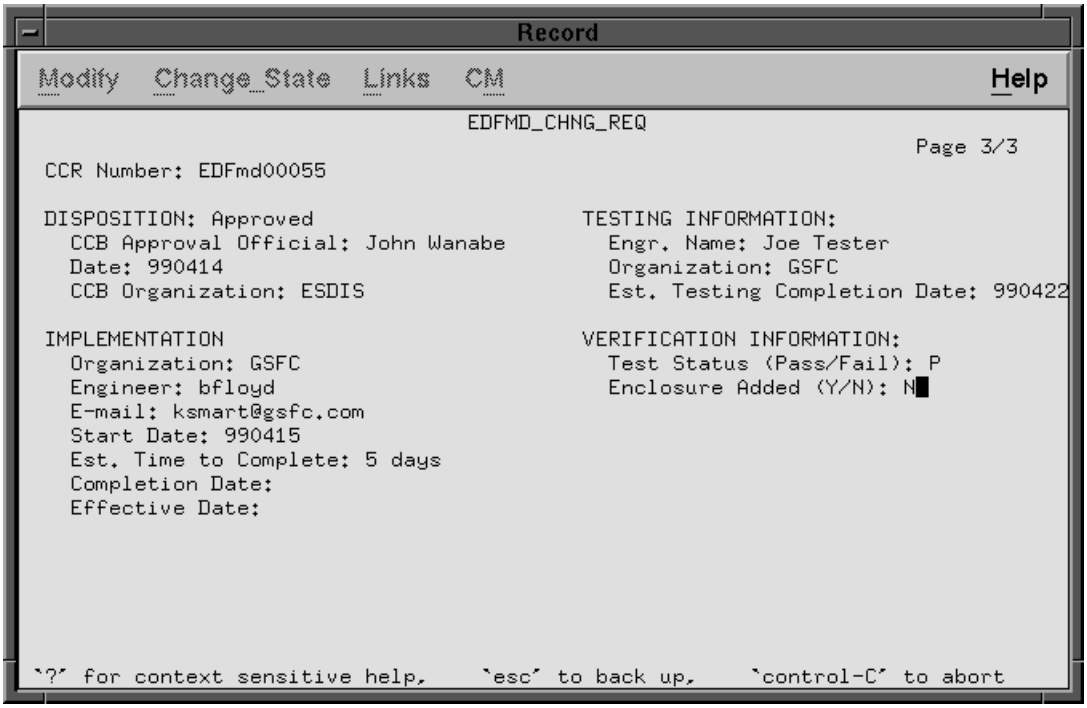


Figure 4.3.2-12. DDTS Verify State Screen

Description of the Verify state fields are shown in Table 4.3.2-6.

Table 4.3.2-6. Verify State Fields Descriptions

Field Name	Data Type	Size	Entry	Description
Test Status	character	1	Required	• this is an indicator as to whether or not the item (s) being tested has passed the test • answer must be Passed or Failed
Enclosure Added	character	1	Required	• this is an indicator as to whether or not an enclosure has been to further describe the testing activity • answer must be Yes or No

Following the Verify State on the Change_State Menu is the Close state that is the state entered when all activity specified in the change request has been completed or that the approval authority has decided to close it prior to completion of all activity. The Close state data fields appear under the heading, “CLOSING INFORMATION” as shown in Figure 4.3.2-13.

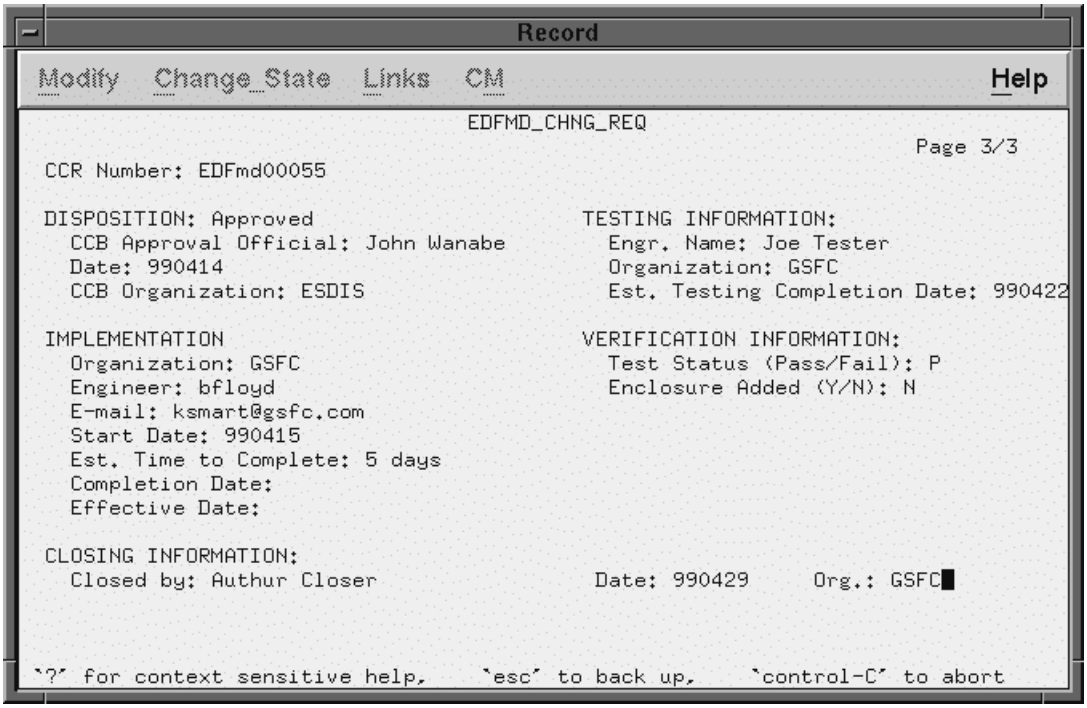


Figure 4.3.2-13. DDTS Close State Screen

Descriptions of the Close state fields are shown in Table 4.3.2-7.

Table 4.3.2-7. Close State Fields Descriptions

Field Name	Data Type	Size	Entry	Description
Closed By	character	25	Required	name of the individual that is closing the CCR
Closing Date	date	6	Required	• date that the CCR is closed • required format is yymmdd
Closer's Organization-	character	5	Required	• name of the closing official's organization • answer must be one of the following: ASF, EDC, EOC, GSFC, JPL, LaRC, NSIDC, ORNL, SMC

Refer to Chapter 2 of the Clear*DDTS User's Manual* for information about the Duplicate, Defer (Postpone), and Forward states shown on the Change_State Menu.

4.3.2.2.3 DDTS Modify CCR

There will be times when the operator needs to change the information that was entered previously into the database or to enter information into fields that were not completed initially. The Modify

Menu, shown in the middle of Figure 4.3.2-14 and in Figure 4.3.2-15, enables modification of database data.

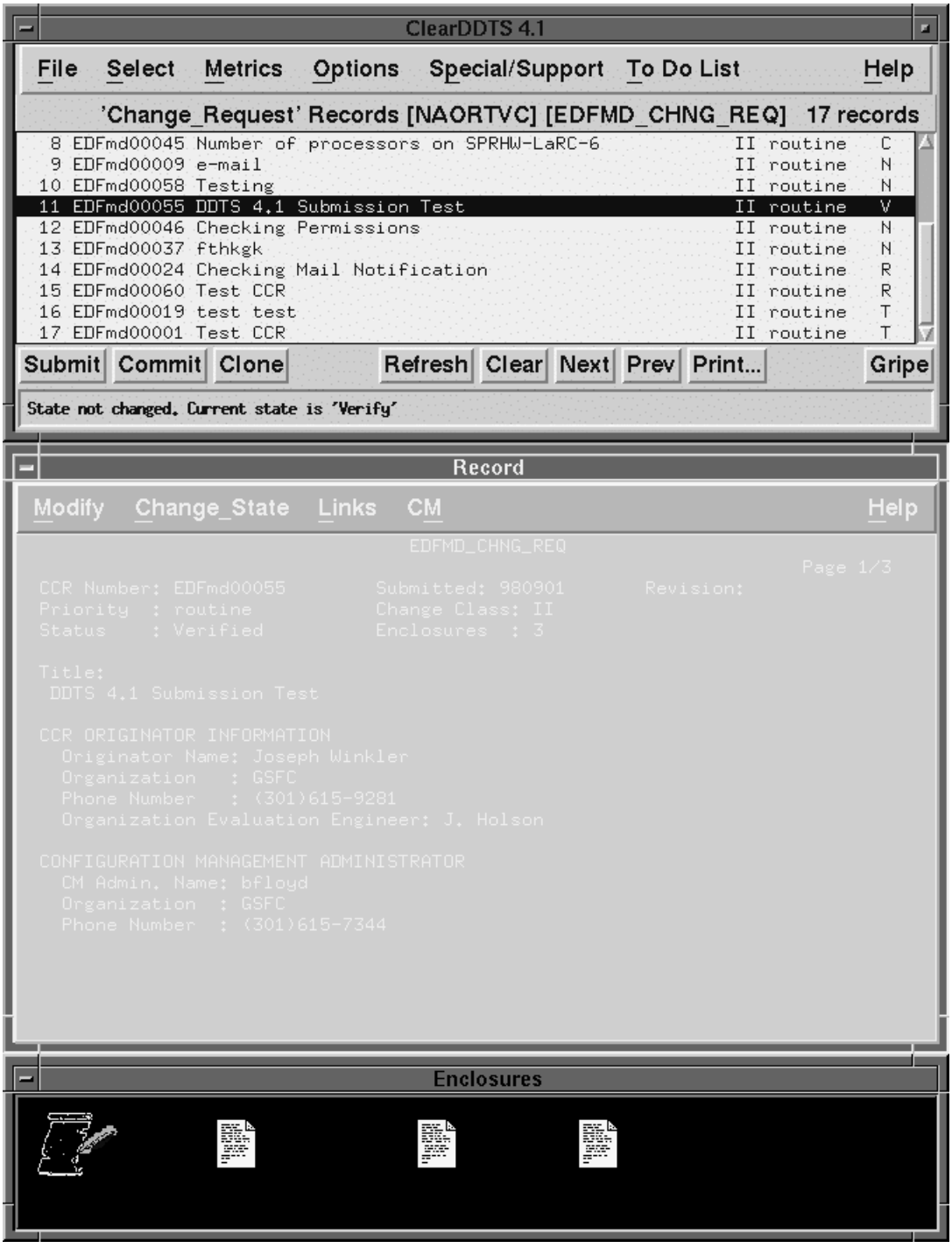


Figure 4.3.2-14. DDTS Main Screen (Modify)

Clicking the “Modify” menu on the main screen (Figure 4.3.2-15) brings up the modify options (Figure 4.3.2-16). Select the “Modify Record” option to change existing information and/or to enter information into fields left blank previously.

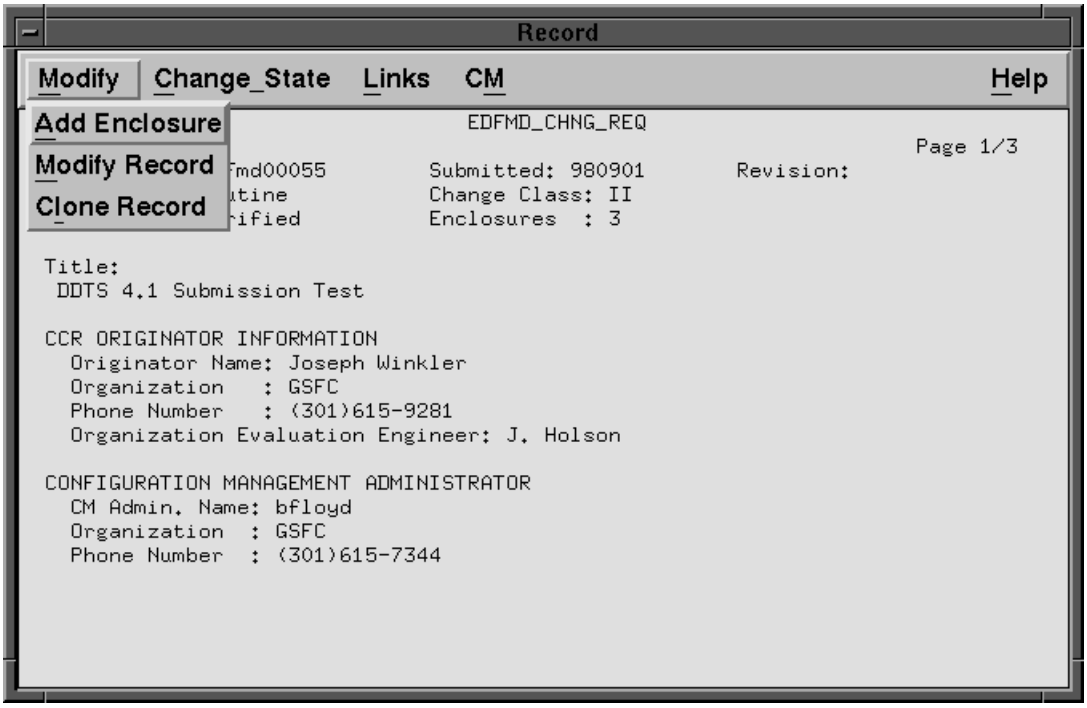


Figure 4.3.2-15. DDTS Modify Menu Screen

The cursor appears at the first field that may be modified as shown in Figure 4.3.2-16. The modify record mode enables the operator to go through all of the fields that are associated with the current status of the CCR and make changes where appropriate. Once the changes have been made, clicking the “Commit” button on the main screen adds the changes to the database. Reference Chapter 6 (Viewing and Modifying Records) of the *ClearDDTS User’s Manual* for additional information.

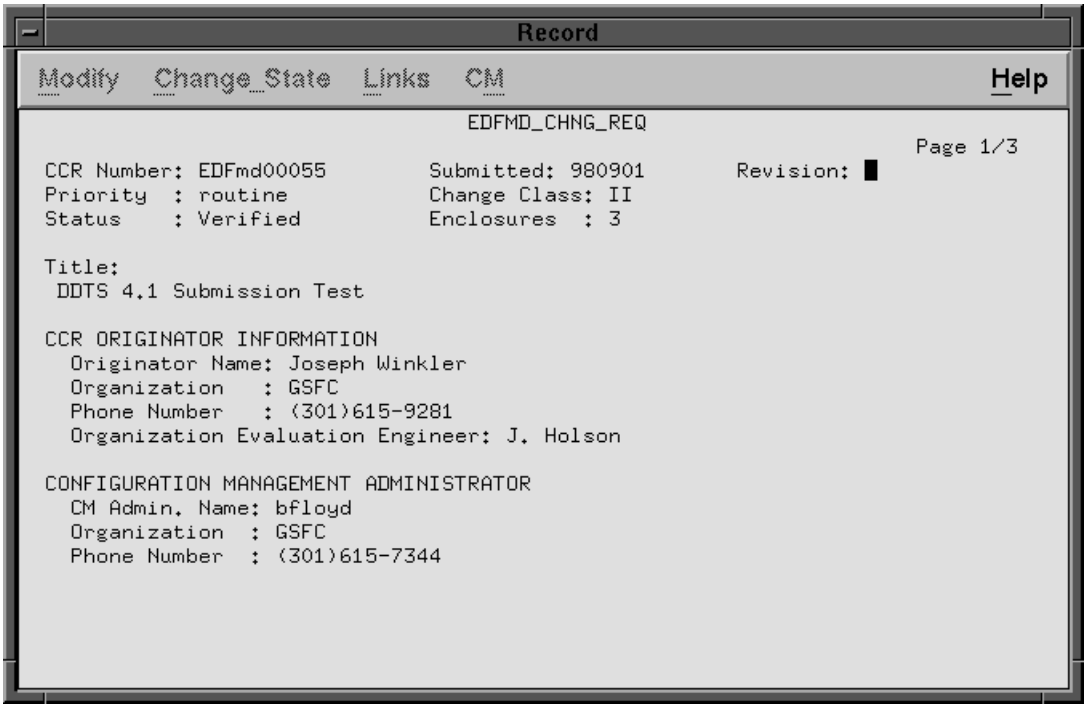


Figure 4.3.2-16. DDTS Fields To Be Modified Screen

4.3.2.2.4 DDTS Print CCR

Starting at the Main Screen as shown in Figure 4.3.2-17, the Options Menu or the “Print” button can be used to print a CCR.

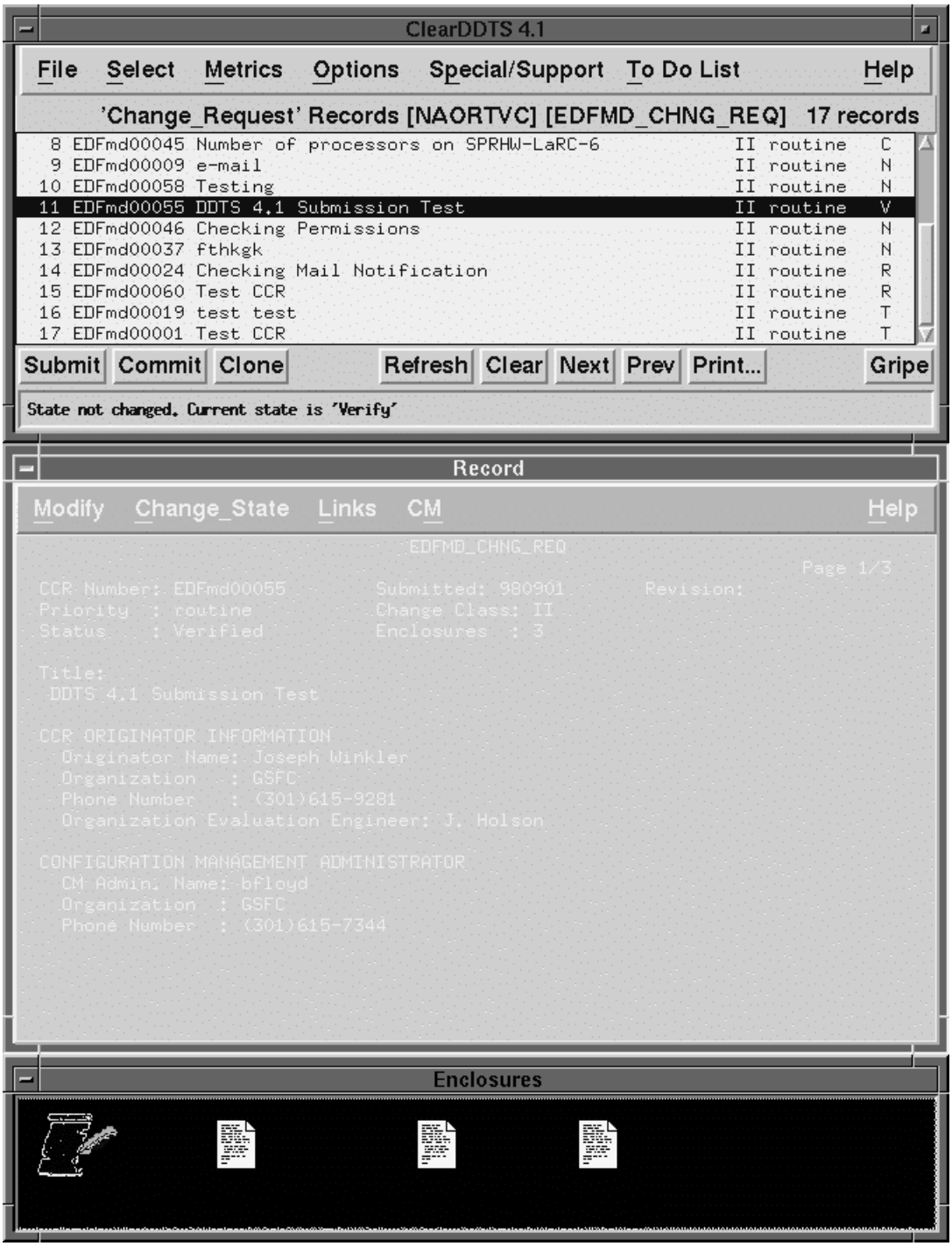


Figure 4.3.2-17. DDTS Main Screen (Print)

Clicking the “Print” button brings up the Printing Options Screen. See Figure 4.3.2-18. This screen provides the operator the capability to print a highlighted CCR or all of the CCRs in the index on the main screen in a full page, index, one line, or three-line format.

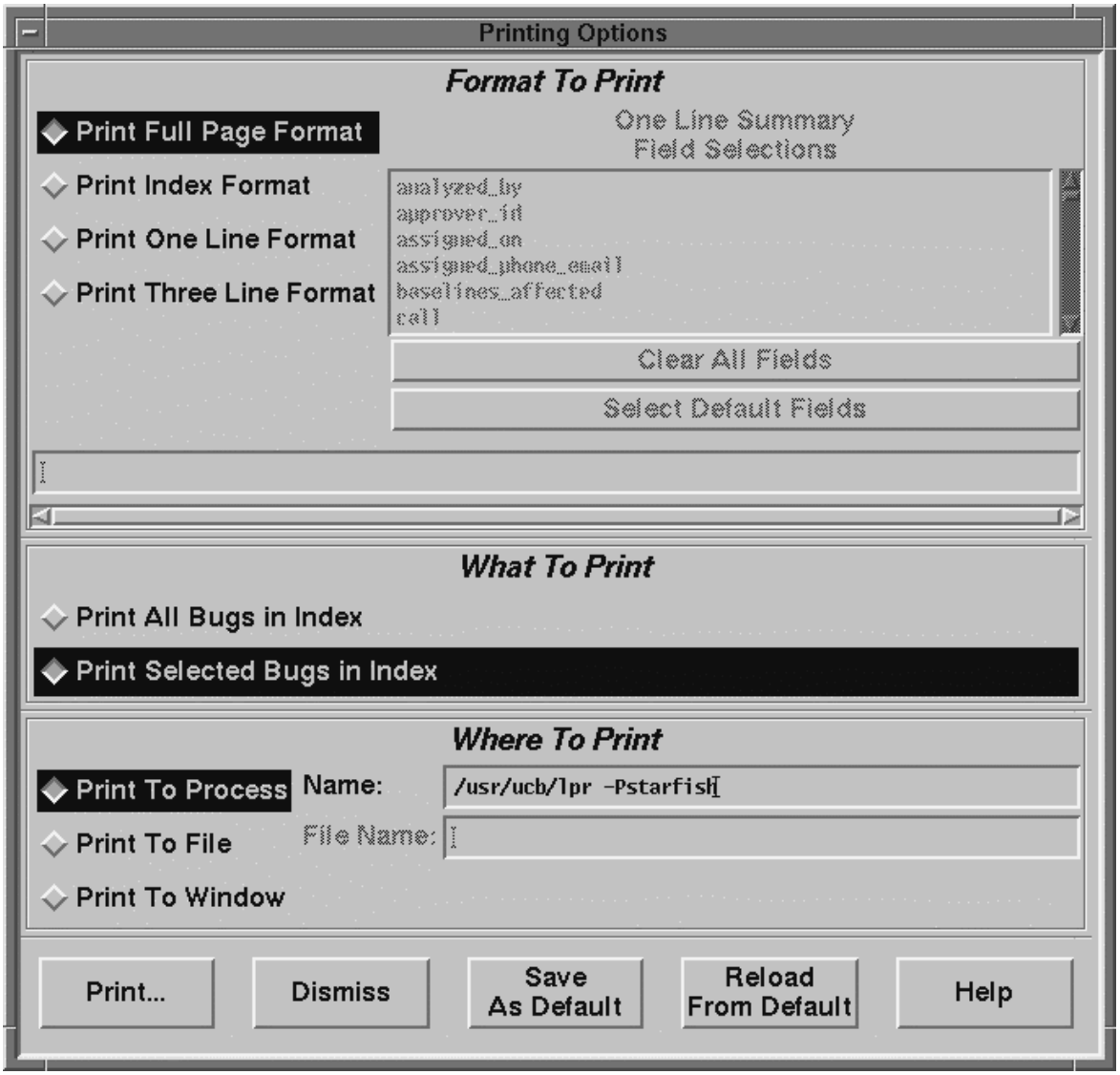


Figure 4.3.2-18. DDTS Printing Option Screen

The Printing Options Screen also enables the operator to display the selected format on the monitor, print to a printer, or print to a designated file. Printing occurs when the desired option under “Where to Print” is highlighted and the appropriate information in the case of the printer and file options is supplied. Reference Appendix B (Setting Options) of the *ClearDDTS User’s Manual* for additional details.

4.3.2.3 Required Operating Environment

For all COTS packages, appropriate information on operating environments, tunable parameters, environment variables, and a list of vendor documentation can be found in a CM controlled ReadMe file for each product. To find the ReadMe file for the DDTS, use the XRP Baseline Manager to determine where in ClearCase the ReadMe file resides.

4.3.2.4 Databases

The DDTS database is a proprietary database that is SQL compliant. The database is customized only to the extent that some additional fields have been added. Reference Appendixes F and G of the *ClearDDTSAdministrator's Manual* for detailed information about the DDTS database layout, the schema file, how to modify the database schema, and other information required to maintain or revise the DDTS database.

4.3.2.5 Special Constraints

None

4.3.2.6 Outputs

DDTS emails notification to designated personnel of newly submitted CCRs and when the status of the CCR changes.

4.3.2.7 Event and Error Messages

Standard DDTS event and error messages are used. There are no messages unique to the ECS implementation. A list of the DDTS event and error messages is not provided in the *ClearDDTSUser's* and *Administrator's* manuals. However, messages provided during execution of DDTS are self explanatory.

4.3.2.8 Reports

Standard DDTS reports are to be used. Reference Chapter 7 and Appendix B of the Clear*DDTS User's Manual* for information concerning the printing of a CCR report and a description of the available report formats.

4.3.2.8.1 Sample Reports

Examples of DDTS reports are presented in the sections below.

4.3.2.8.1.1 Sample Report (Full Page Format)

Figure 4.3.2-19 is a CCR report resulting from the use of the DDTS Printing Option (full page format).

ECS_CHNG_REQ

Page 1/3

CCR Number: MSSdd00630 Submitted : 960529 Revision:

Priority : routine Change Class: II

Status : Closed Enclosures : 3

Title:

Revise Data Input Screen (Example Only)

CCR ORIGINATOR INFORMATION

Originator Name: Frank Pace

Organization : LaRC

Phone Number : (999)234-1289

Organization Evaluation Engineer: J. Bellamy

CONFIGURATION MANAGEMENT ADMINISTRATOR

CM Admin. Name: bfloyd

Organization : LaRC

Phone Number : (999)234-1830

Figure 4.3.2-19. DDTS CCR Report (1 of 4)

ECS_CHNG_REQ

CCR Number: MSSdd00630

ANALYSIS INFORMATION

Evaluation Engineer : bfloyd

Organization : LaRC

Email Address: bfloyd@larc.com

Impact Evaluators:

1. GSFC 2. LaRC 3. EDF 4. 5. 6.

7. 8. 9. 10. 11. 12.

Sites Affected:

1. GSFC 2. LaRC 3. SMC 4. 5. 6.

7. 8. 9.

Related CCR# :

CI Affected : Planning CSCI

Documents Affected:

Release Affected : Release X

Baselines Affected:

Figure 4.3.2-19. DDTS CCR Report (2 of 4)

ECS_CHNG_REQ

CCR Number: MSSdd00630

DISPOSITION: Approved TESTING INFORMATION:

CCB Approval Official: John Wana Engr. Name: Joe Tester

Date: 960607 Organization: LaRC

CCB Organization: ESDIS Est. Testing Completion Date: 960614

IMPLEMENTATION VERIFICATION INFORMATION:

Organization: SEO Test Status (Pass/Fail): P

Engineer: bfloyd Enclosure Added (Y/N): N

E-mail: efinch@eos.com

Start Date: 960610

Est. Time to Complete: 2 days

Completion Date: 960612

Effective Date: 960710

CLOSING INFORMATION:

Closed by: Authur Closer Date: 960618 Org.: SMC

********** Proposed Change **********

Need or Problem: Describe the need or problem.

The need is -----

Figure 4.3.2-19. DDTS CCR Report (3 of 4)

Proposed Solution: Describe the proposed solution.

Suggest that the following capability be changed as follows:

- capability changes

********** Impact Summary **********

Summarize the impact statements received from the organizations requested to provide impacts.

Summary of impacts received from GSFC and EDF is ---------

Resources Summarized: [description of resources]

Technical Summary:

ROM Summary (BOE, Cost & Schedule):

Recommendation: [Insert Recommendation]

********** Resolution **********

Describe how the request will be resolved/completed.

This request will be resolved as follows:

- Capability x will be modified to ----.

Figure 4.3.2-19. DDTS CCR Report (4 of 4)

4.3.2.8.1.2 Sample Report (Three Line Format)

Below is a sample CCR report resulting from the use of the DDTS Printing Option, Three Line Format.

Submitted 960529, CCR# MSSdd00630, Originator Frank Pace

Title Revise Data Input Screen (Example Only)

Priority routine, Class II, CCB Org. ESDIS, Dips. Approved, Status Closed.

Submitted 960521, CCR# MSSdd00617, Originator Joseph Winkler

Title Add GUI to X11 Program (Example Only)

Priority routine, Class II, CCB Org. LaRC, Disp. Approved, Status Implemented.

Figure 4.3.2-20. DDTS CCR Report: Three Line Format

4.3.2.8.1.3 Sample Report (Index Format)

Below is a sample CCR report resulting from the use of the DDTS Printing Option (Index format). Fields displayed are CCR Identifier, Title, Change Class, Priority, and Status.

MSSdd00630 Revise Data Input Screen(Example Only) II routine C

MSSdd00617 Add GUI to X11 Program (Example Only) II routine R

Figure 4.3.2-21. DDTS CCR Report: Index Format

4.3.2.8.1.4 Sample Report (One Line Format)

Below is a sample CCR report resulting from the use of the DDTS Printing Option (One Line format). The operator selects the fields desired for the one line format. In this case, the Identifier, CCR Originator, Originator Organization, Implementing Organization, and Status fields were selected and their data values are displayed.

```
MSSdd00630 Frank Pace          LaRC              SEO   C
MSSdd00617 Joseph Winkler      GSFC              LaRC  R
```

Figure 4.3.2-22. DDTS CCR Report: One Line Format

4.3.2.8.2 Report Customization

Refer to Chapter 9 of the *ClearDDTSAdministrator's Manual* for an explanation of how to customize DDTS reports. Chapter 9 explains how to customize reports provided by DDTS and how to create and add new reports.

This page intentionally left blank

4.3.3 XRP-II (Baseline Manager)

XRP-II is a commercially available manufacturing management system specially configured to serve as the ECS Baseline Manager.[1] It helps the M&O staff at the DAACs, EOC, and SMC maintain records that describe what comprises baselined operational system configurations. These records identify baselined versions of hardware and software items as well as their assembly structures and interdependencies. XRP-II keeps chronological histories of baseline changes and traceability of items to predecessor versions and system releases.

XRP-II does this primarily by maintaining a catalog of version-controlled items, called control items, along with data about how they relate. Control items encompass physical resources such as software packages and hardware devices assembled to form an operational system, as well as logical artifacts such as baselines, configuration items, processing strings, and logical disk partitions. They are designated to relate system entities directly to discrete responsibilities and actions associated with configuration management of the system. XRP-II's catalog of control items is called Control Item Master.

The most significant relationship maintained among control items is product structure. Product structure is the XRP-II term for the parent-component pairings that define the ingredients – or bill of material -- for an assembly. Product structures have corresponding active and inactive dates that establish the timeframe during which the pairing is in effect, and they can reference engineering change notices. XRP-II's engineering change notices enable product structure changes to be grouped, reported, checked, and approved before they go into effect. They also facilitate tracking control item changes by a related configuration change request and/or trouble ticket. Sections 1.6.2 and 4.1 of the XRP-II Product Information Manual discuss product structures in more detail.

XRP-II is installed as a separate system at each ECS site, where it manages baseline data about resources deployed to and established at that site. At the SMC, it also offers a consolidated view of baseline data system-wide. XRP-II generates a variety of reports that can be viewed, printed, or saved in a file. These reports draw on data stored at the site where the report is run. The DAACs, EOC, and SMC can export and electronically exchange baseline records among the sites via formatted files. Additionally, each site can generate sets of resource configuration records that can be used to seed Planning Subsystem databases for resource planners. .

Table 4.3.3-1 summarizes the operator functions that XRP-II supports. The sections that follow present how to use XRP-II features that were customized for ECS' Baseline Manager. Refer to the following manuals for a full understanding of XRP-II itself:

---

[1] Baseline Manager employs and extends a subset of XRP-II's standard, product information capabilities described in Section 1 of the XRP-II Product Information Manual. Added features include use of configuration management-related terminology and item classifications in describing parts and assemblies of parts; maintenance of item dependency and implementation status data; and synchronizing of databases across ECS sites to form a consolidated, system baseline view. Baseline Manager omits XRP-II's cost accounting, stock location, and part planning features; they are not required for baseline management.

- *XRP-II System Reference Manual* - presents an overview of XRP-II and describes system-related functions associated with using it.

- *XRP-II Product Information Manual* - presents a full description of XRP-II's product information module in context of XRP-II's integrated set of manufacturing-oriented applications.

- *XRP-II Datalook/Datarite Reference Manual* - presents a technical reference for the on screen database editor (DATALOOK) and report generator (DATARITE) incorporated in XRP-II for creating custom screens and reports.

- *XRP-II Tools, Techniques, and Conventions Manual* - presents a description of methods and utilities an XRP-II support engineer would use to perform low-level maintenance on XRP-II's database, screens, and reports.

- *UNIFY Developer's Reference* - presents a guide with examples for using UNIFY's tools for developing database applications and interacting directly with the database. It also describes many UNIFY messages.

- *UNIFY Direct HLI Programmer's Manual* - presents a technical reference for programmers of UNIFY RDBMS applications. It contains a summary of UNIFY's error log file and common error messages.

- *UNIFY Developer's Tutorial* - a practical tutorial and functional reference for using UNIFY.

- *ACCELL Publication Package* – describes how to install ACCELL.

- *ACCELL Release Notes* – describes software changes that occurred after the ACCELL and UNIFY manuals were printed.

Refer to ESDIS and ECS configuration management plans and procedures for definitions of such terms as baseline, configuration item, control item, and configured article used in this document.

Table 4.3.3-1. Common ECS Operator Functions Performed with XRP-II (1 of 3)

Operating Function	Character-based User Interface	Description	When and Why to Use
Catalog control items (section 4.3.3.2.1)	Control Item Master menu; Implementation Status Maintenance screen	Operators select and use a data entry screen to update records identifying individual control items and to identify the sites at which each is (to be) deployed	Used whenever a new control item is to be added or deleted, or when the characterization of an existing one needs changing
Define/Update what comprises baselines and other control item assemblies (section 4.3.3.2.2)	Bill Of Material menu	Operators select and use data entry screens to record engineering change notices and maintain product structure records for control.	Used whenever the component structure of a control item has to be defined or changed.
Distribute baseline change records for a release (section 4.3.3.2.3)	Export Release Records screen	Operators select one or more control items and initiate creation of formatted files which they can ftp to one or more sites. The files contain all appropriate, related records.	Used whenever a baseline change is to be released from one site for distribution to others.
Incorporate release records at a site (section 4.3.3.2.4)	Import Data screen	Operators at the sites import data from tar files ftp'ed from the SMC (or other site)	Used any time an XRP-II formatted file containing database updates is available at a site
Provide site baseline change records to the SMC (section 4.3.3.2.5)	Export Site-Unique Changes screen	Operators at the sites create files containing site-unique records changed since the last data export, and can ftp the files to the SMC (and other sites if desired.)	Used as required so the SMC can maintain a current, consolidated database of what comprises operational site baselines system-wide.
Incorporate site baseline change records at the SMC (section 4.3.3.2.4)	Import Data screen	Operators at the sites import data from tar files ftp'ed from a site	Used any time an XRP-II formatted file containing database updates is available at the SMC

Table 4.3.3-1. Common ECS Operator Functions Performed with XRP-II (2 of 3)

Operating Function	Character-based User Interface	Description	When and Why to Use
Maintain control item implementation status data (section 4.3.3.2.6)	Implementation Status Maintenance screen	Operators maintain records describing the implementation status and installation dates of control items at a site	Used whenever the installation date or implementation status of a control item is established or changed. (Note: Records in the bill of materials for site "production" baselines are used by Resource Planning to maintain its resource inventory.)
Update dependencies among control items (section 4.3.3.2.7)	Control Item Interdependency Maint screen	Operators maintain records that define operator-specifiable relationships between any two control items	Used primarily to identify resources that are version-dependent and to correlate documents with the resources they describe
Query Control Item Records (section 4.3.3.2.8)	Query menu	Operators browse and print a variety of baseline data records	Used to retrieve information about control items, product structures, and change histories, primarily by operators not authorized to change it
Generate Pre-defined Reports (section 4.3.3.2.9)	Report menu	Operators run pre-defined reports using record selection criteria they specify	Used whenever a hard or soft copy of a report is desired
Perform baseline management master files maintenance (section 4.3.3.2.10)	Utilities menu	Operators maintain data that supports local Baseline Manager operation	Used whenever changes are needed to reference files for baseline management and to force recalculation of certain underlying codes and dates.

Table 4.3.3-1. Common ECS Operator Functions Performed with XRP-II (3 of 3)

Operating Function	Character-based User Interface	Description	When and Why to Use
Perform XRP-II master files maintenance (section 4.3.3.2.11)	System Utilities menu	Operators maintain data and generate files that sustain XRP-II operations system-wide	Used whenever changes are needed to parameters that affect multiple XRP-II functional areas; also used when exporting or importing baseline data being exchanged with other sites.
Perform XRP-II system and database administration (section 4.3.3.2.12)	System Tools menu	Operators regulate user access, administer the database and, if necessary, customize XRP-II	Used whenever changes are needed to screens, menus, printers, and user permissions or when data must be dumped or loaded in bulk

4.3.3.1 Quick Start Using XRP-II

XRP-II has a character-based user interface which employs screens for data entry and report generation, and menus for navigating to the screens. Data is entered via the keyboard in fields that are traversed from left to right row by row. On data entry screens, labels for fields whose values can be modified while viewing the screen are displayed in upper case; labels for the remaining fields are displayed in initial caps. The database is updated every time a field's value changes, and a record of that change is written to a transaction log. The System Reference Manual describes how to use XRP-II's menus and screens.

Most data entry screens have a form and a table view. Form views offer full screen layouts of a data record's fields, whereas table views offer rows of records in a window that is panned to see columns of fields. Some screens' table views, however, contain fewer fields than their corresponding form views, most often due to system limitations on a table view's panes.

Numerous functions can be performed by data entry screens. Commands available to an operator are screen-dependent and are listed near the bottom of each screen (hence their name: bottom-line commands). The **M**ore command helps the operator cycle through them. Most bottom-line functions are described in the System Reference Manual and Product Information Manual. Any that were added for Baseline Manager are described in the sections below along with the screens to which they pertain.

It is important to note that the UNIFY relational database management system XRP-II uses does not support rules requiring entries in specific fields[2]. Baseline Manager attempts some enforcement via the data entry screens, either by establishing default values where feasible when new records are created, or by blocking an operator from cursoring past a null field when in Add or Insert modes. However, database updates can occur in ways that bypass these mechanisms, so operators must ensure required data gets entered. The sections below identify the few fields which require entries.

4.3.3.1.1 Command Line Interface

To run XRP-II (Baseline Manager) from the command line prompt, type either:

a) **<*principal dir name*>/scripts/pcs**,

where *principal dir name* is the directory at which XRP-II is accessed (nominally, /usr/ecs/OPS/COTS/xrp);

or,

b) **pcs**, if XRP's scripts directory has been added to your path.

The "pcs" script determines the operator's terminal type from the environment, prompts for a terminal id, and reads a configuration file to establish a Baseline Manager operating environment. The script then starts XRP-II, passing the operator's userid which it obtains from the system.

4.3.3.2 XRP-II Main Screen

The first screen[3] an operator sees upon invoking[4] XRP-II varies depending on the entry menu and screen group assigned to the operator. These assignments are made in the "users" section of the XRP-II Tools Manual.

All XRP-II menus are similar in appearance and function the same way. Only the titles and selections vary. Read the *System Reference Manual* to familiarize yourself with using the menus and screens before proceeding further in this section.

XRP-II's top-level menu is the ECS Management System Main Menu (Figure 4.3.3-1). For Baseline Manager, it lets operators navigate to the following submenus:

- Baseline Management menu - provides access to XRP-II functions for maintaining control item and bill of material information;

---

[2] XRP-II uses the UNIFY RDBMS bundled in the product, "ACCELL Integrated Development System".

[3] By convention, XRP-II uses the term "screen" when referring to a window containing a Datalook data entry form or table. Other windows, like the one described here, are called "menus" and are navigation paths to screens.

[4] An ECS customization bypasses XRP-II's standard login screen, normally the first screen an XRP-II system user would see.

- ILM Main menu - provides access to XRP-II functions for maintaining inventory, logistics, and maintenance information.
- System Utilities menu - provides access to XRP-II functions for maintaining system information that spans functional domains;
- System Tools menu - provides access to aids for registering XRP-II users, assigning permissions, customizing data entry screens and menus, and performing general-purpose database dumps and loads.

These submenus, in turn, reference others that lead to XRP-II's data entry screens.

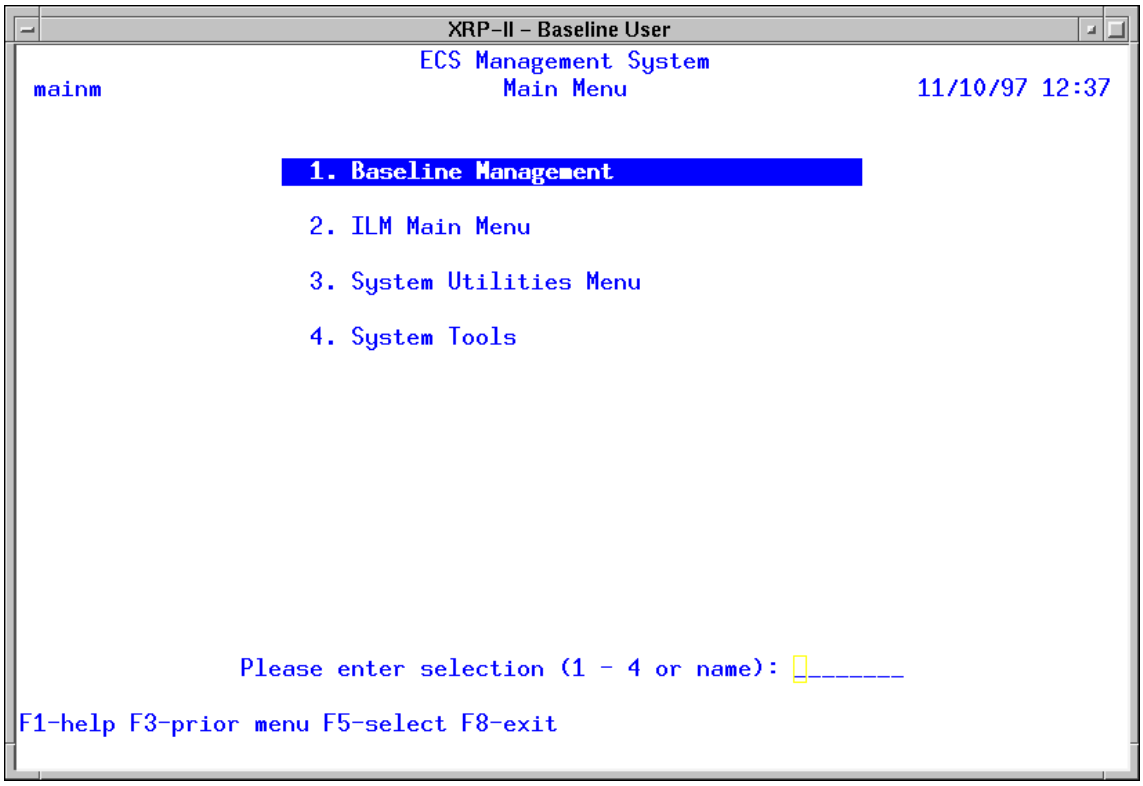


Figure 4.3.3-1. ECS Management System Main Menu

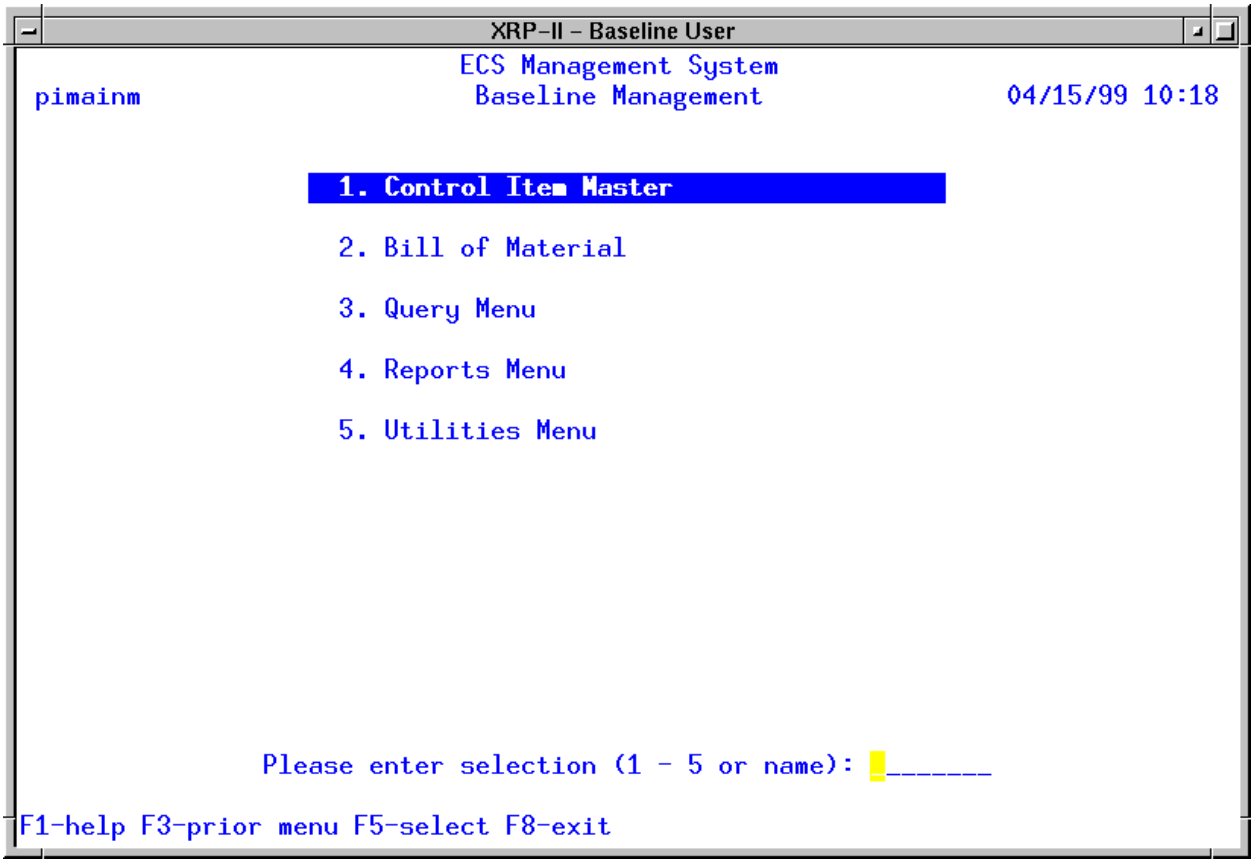


Figure 4.3.3-2. Baseline Management Menu

Figure 4.3.3-3 depicts Baseline Manager's full menu structure. XRP-II data entry screens configured for ECS baseline management are described in the sections that follow.

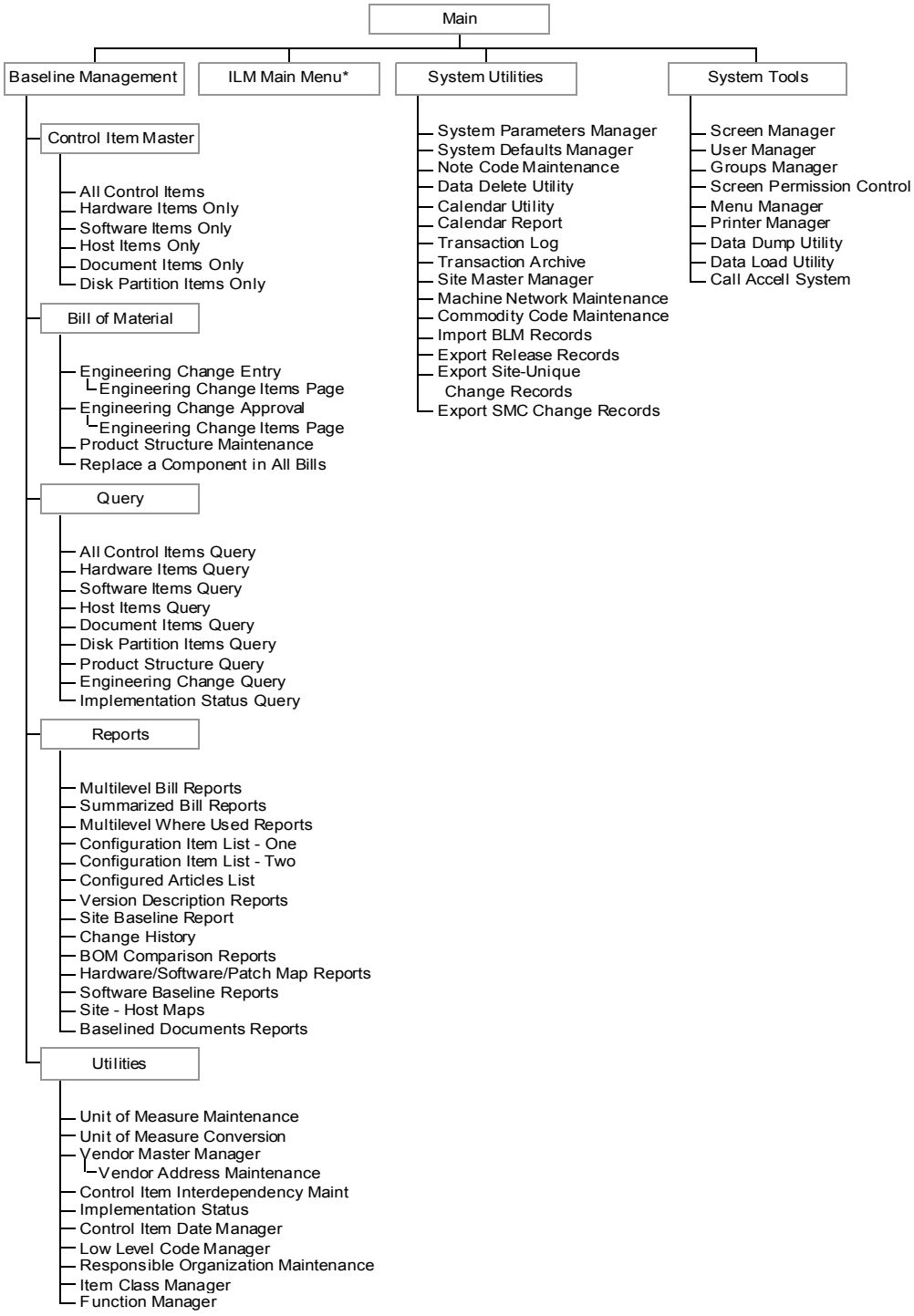


Figure 4.3.3-3. ECS Baseline Management System Menu Structure

* ILM Main Menu is discussed in section 4.3.4.2.

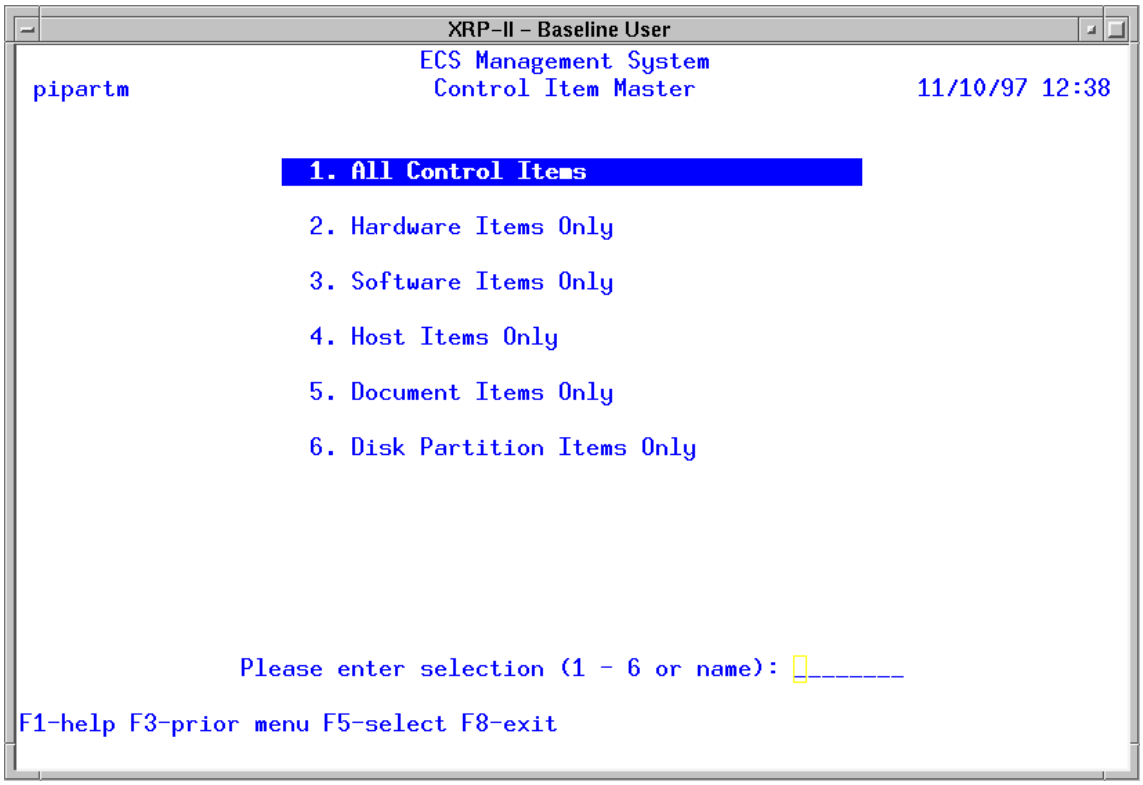


Figure 4.3.3-4. Control Item Master Menu

4.3.3.2.1 Catalog the Control Items

Data about one or more control items can be added, modified, or deleted by selecting an appropriate data entry screen from the Control Item Master menu (Figure 4.3.3-4). These screens modify the control item master file, Baseline Manager's control item "catalog". This is the XRP-II file that describes individual control items. Each screen accesses a particular set of records and contains a unique set of fields corresponding to a control item's class. However, all screens function the same, and all but one has identical bottom-line commands.

Control item master screens are Baseline Manager equivalents of the Part Master Maintenance screen described in Section 3.4 of the Product Information Manual. Their fields are tailored for baseline management, and the following bottom-line commands are added:

- **B**om - navigates the operator to a Product Structure Component Query screen for the current item. There, an operator can examine the historical record of first-level components for the item, then exit back to the previous screen.
- **W**here - navigates the operator to a Product Structure Parent Query screen for the current control item. There, an operator can determine where the item (or any other item) is used in any bill of material, then exit back to the All Control Items screen.

- **E**c - navigates the operator to an Engineering Change Query screen for the current item, where an operator can view each historical engineering change recorded for the item.

Using control item master screens, operators can add or modify control item data at any time, without affecting any bills of materials. However, these screens can not delete an item if the item is referenced by another database record; the Data Delete utility must be used instead (see section 6.12 of the System Reference Manual).

Note: XRP-II may take a minute or more to select and arrange Baseline Manager records the first time a session accesses a control item master screen.

Most fields in a control item's master record are for information only. However, the following play a role in XRP-II processing.

- Control item identifier - Every item in the catalog has its own record and must have a unique identifier. By convention, core and site-specific control items – those centrally developed and/or maintained on behalf of one or more sites -- are assigned designators of the form "b*nnnnnnnn*"; site-unique control items (those established by a site or on behalf of a site) are given a 3-character site prefix. XRP-II relies on this differentiation when synchronizing site baseline changes with the database at the SMC (see Sections 4.3.3.2.5, 4.3.3.2.6, and 4.3.3.5). The "b" in control item identifiers is a convention that stands for "baseline". The convention helps operators visually distinguish between identifiers used for baseline and inventory items, which are otherwise similar and both stored in the same XRP-II database.

- Item class - as previously mentioned, the class to which a control item is assigned determines the set of characteristics or details that can be recorded about the item and the screens to be used to update and view the data (see Section 4.3.3.2.10.6).

- Planning resource - items marked as planning resources will be reported when Baseline Manager receives requests from resource planners for resource configuration data.

- Config article - items marked as configuration articles form the basis for several custom ECS reports, including the Configured Articles List and the Version Description Report.

- Implementation status - implementation status data recorded for a control item influences:

  — the contents of several ECS custom reports which use deployment site data for selecting and ordering data;

  — the data that is reported to resource planners about resources that comprise operational baselines whose implementation status is "production".

The next few sections describe specific XRP-II screens and fields an operator would use when updating the control item catalog.

4.3.3.2.1.1 All Control Items Screen

The All Control Items screen (Figure 4.3.3.3-5) adds, modifies, and deletes general identification information about individual control items. It accesses every control item record, but does not contain fields describing an item's detailed characteristics. Details are handled by class-specific data entry screens described in Sections 4.3.3.2.1.1- 4.3.3.2.1.6.

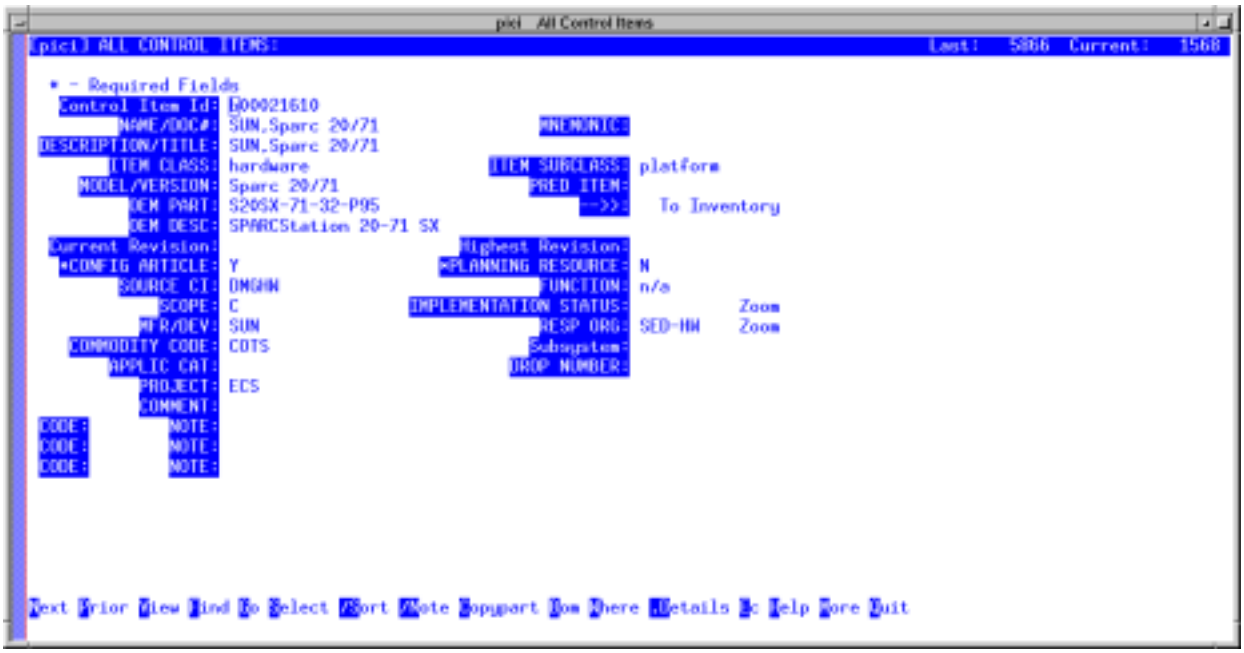


Figure 4.3.3-5. All Control Items CHUI

Fields on this screen serve as a template for all control item master screens, and are described in Table 4.3.3-2. The following bottom-line command, however, is unique to this screen:

- **.D**etails - navigates the operator to a control item update screen where details can be recorded about the current control item record. Detail screens are available only for hardware, software, document, host, and disk partition classes of control items.

Use bottom-line commands such as **S**elect, **F**ind, **N**ext, and **P**rior to locate a record, and use **/A**dd, **/I**nsert, **/M**odify, and **/D**elete to switch to an update mode[5]. Then edit the catalog via the keyboard, or use the **/Z**oom command (on fields where it is active) to pick values from a list; XRP-II updates the database automatically when the cursor leaves a field, eliminating the need to "save" your work. To save time, use **C**opypart to create a new control item with data from some

[5] Commands used to enter an update mode are not initially visible on a data entry screen. Use the More command to cycle through lists of commands available to the screen.

existing one, and use **/C**opy to replicate data fields over a range of control item records. When finished, type <**F3**> to exit database update mode. Then either proceed to other records or type "**Q**" (quit) or <**F3**> to exit the screen.

Note: The Config Article field must be set to "Y" if the control item is to appear in a Configured Article List or a Version Description Report.

Note: The Planning Resource field must be set to "Y" if the control item is to be included in formatted files of production baseline data generated for resource planners.

Note: The Item Class field must be set to either "host", "string", "hardware", "software", or "partition" if a control item marked as a planning resource is to be included in formatted files of production baseline data generated for resource planners.

Table 4.3.3-2. All Control Items Field Description (1 of 3)

Field Name	Data Type	Size	Entry	Description
control item id	string	20	required	Unique code for a version- or configuration-controlled item
name/doc #	string	24	optional	Name by which a specific control item is known
mnemonic	string	8	optional	Code (or short name) by which item is referenced (e.g., MLCI)
description/title	string	54	optional	Textual characterization of an entity
item class	string	16	optional; zoom to select from a list of valid classes	Link to the group name for control items having common attribute types (e.g., software, hardware, design, document, host, network, site, baseline, partition, project, other,...)
item subclass	string	16	optional	Group name that distinguishes among types of control items within a class
model/version	string	24	optional	Textual identifier for a level of functional capability for a control item
pred item	string	20	optional	Identifier of the previous version of a control item

Table 4.3.3-2. All Control Items Field Description (2 of 3)

Field Name	Data Type	Size	Entry	Description
oem part	string	34	optional; zoom to select from a list of numbers maintained in inventory	Manufacturer's part number for an item
>>	N/A		optional; zoom to a list of EIN records for the part named in field "oem part"	Link to a set of XRP-II records related to the current record
oem description	string	40	optional; defaults to inventory description for item named in "oem part"	Manufacturer's description of an item
current revision	string	3	system supplied	Identifier for the currently-active revision level of the item's product structure
highest revision	string	3	system supplied	Identifier for a control item's latest product structure revision
config article	string	1	required; Y, N	Code for distinguishing between control items that are configured articles and those that are not
planning resource	string	1	required; Y, N	Code for distinguishing between control items that are reportable for PDPS resource planning and those that are not
source CI	string	8	optional	Mnemonic of the HWCI or CSCI that owns the control item
function	string	30	optional; zoom to select from a list of standard functions	Name for the primary job of the control item
scope	string	1	optional ; c, s, u	Code indicating whether an item is core, site-specific or site-unique
implementation status	N/A		optional; zoom to add or update implementation status records	Link to the control item implementation status table containing the list of sites to which a control item is deployed together with the installation date and implementation status of the control item at each site

Table 4.3.3-2. All Control Items Field Description (3 of 3)

Field Name	Data Type	Size	Entry	Description
mfr/dev	string	3	optional; zoom to select from a list of manufacturer and developer codes	Coded name of the company/organization that produced a hardware control item
resp org	string	6	optional; zoom to select from a list of organizations	Code of the organization responsible for the item
commodity code	string	8	optional; zoom to select from a list of standard codes	Classification for how the item was produced or obtained (e.g., COTS, custom, mod-COTS, GFE, shareware, freeware, other)
subsystem	string	24	system-supplied	Name of the subsystem that owns the item; namely, the parent of the item's source CI
project	string	10	optional; defaults to "ECS"	Name of the principal project under which the item was procured or developed
applic cat	string	2	optional	Code categorizing where or when the item is used (e.g., all hosts, hardware-dependent, etc.)
drop number	string	16	optional	Identifier for the incremental baseline/ release in which the item was delivered from development
comment	string	60	optional	Miscellaneous information specific to the control item
code	string	2	optional	Identifier for a type or category of message that can be associated with a control item
note	string	30	optional	A message, used in conjunction with a code, that can be associated with a control item

4.3.3.2.1.2 Hardware Items Only Screen

The Hardware Items Only screen (Figure 4.3.3-5) adds, modifies, and deletes information that identifies and characterizes hardware control items. These would typically be processor units, tape drives, disk systems, CD-ROM drives, and other similar system and network equipment. Only those catalog records whose Item Class field contains the value "hardware" are accessed.

Fields on this screen that identify a control item correspond to the fields on the All Control Items screen discussed in Section 4.3.3.2.1.1 Additional fields store detailed characteristics applicable only to hardware items and are described in Table 4.3.3-3.

Use this screen the same way as described earlier for the All Control Items screen.

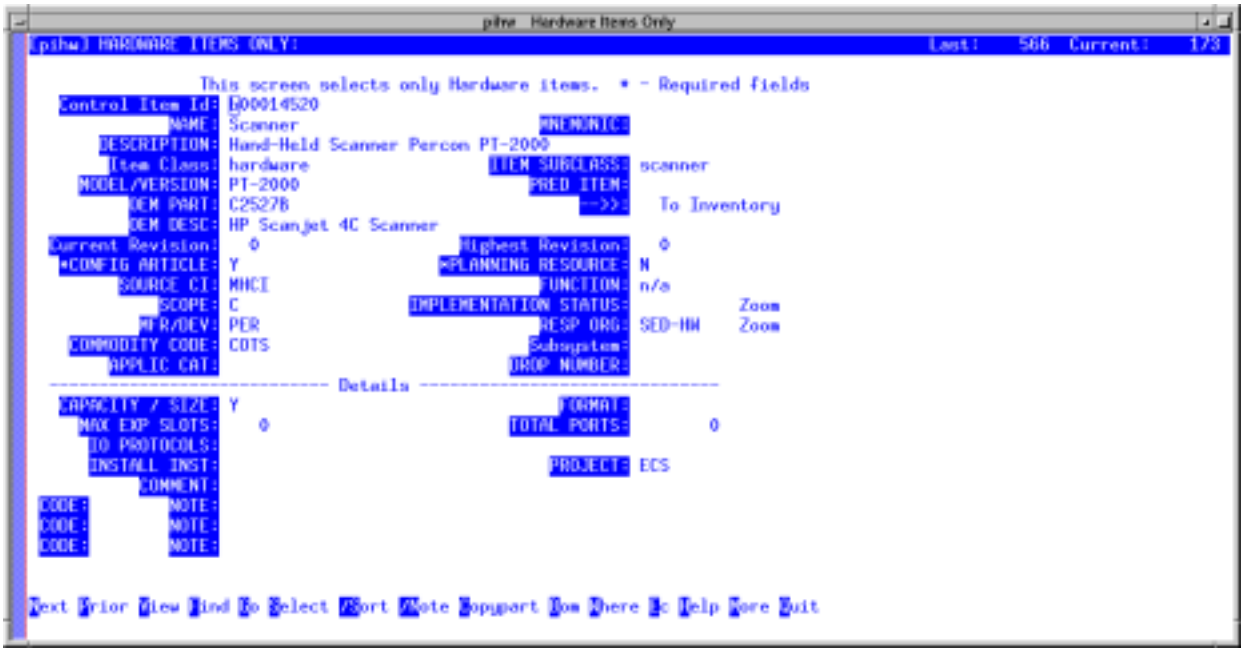


Figure 4.3.3-5. Hardware Items Only CHUI

Table 4.3.3-3. Hardware Items Only Field Description

Field Name	Data Type	Size	Entry	Description
mfr	string	6	optional; zoom to list of manufacturers and developers	Coded name of the company/ organization that produced a hardware control item
capacity/size	string	10	optional	Total capacity (e.g., storage) for a control item
format	string	10	optional	Classification that distinguishes hardware control items according to some technical specification
max exp slots	numeric	4	optional	Number of expansion slots an item contains
total ports	numeric	8	optional	Number of ports (e.g., serial ports, network connections) a control item has
io protocols	string	60	optional	List of protocols a hardware control item supports
install inst	text	N/A	optional	Text containing/specifying where to find instructions for installing the control item

4.3.3.2.1.3 Software Items Only Screen

The screen depicted in Figure 4.3.3-6 adds, modifies, and deletes information that identifies and characterizes software control items. These would typically be application clients, application servers, databases, and patches whether custom or COTS. It accesses only those catalog records whose Item Class field contains the value “software”.

Fields on this screen that identify a control item correspond to the fields on the All Control Items screen discussed in Section 4.3.3.2.1.1. Additional fields store detailed characteristics applicable only to software items and are described in Table 4.3.3-4.

Use this screen the same way as described earlier for the All Control Items screen.

Figure 4.3.3-6. Software Items Only CHUI

Note: The installation instructions field is a text field. It is displayed in a text box window via the /**Z**oom command, which appears on the bottom-line command list whenever the cursor is at a text field. The “T” shown in Figure 4.3.3-7 indicates that data exists in the text box.

Table 4.3.3-4. Software Items Only Field Description

Field Name	Data Type	Size	Entry	Description
variant	string	4	optional	Name of the type of computer on which a software control item has been built to run
tcp/udp port	numeric	8	optional	Numeric identifier of port used for communicating with control item
principal dir	string	50	optional	Pathname(s) at which the item is stored
application id	string	8	optional	Designator used for monitoring and controlling a family of software programs during execution
program id	string	8	optional	Designator used for monitoring and controlling a software program during execution
license type	string	10	optional	Method by which software licenses are assigned (floating, user, machine, site…)
total licenses	numeric	4	optional	Number of seats, computers, or persons authorized to use a COTS application concurrently
install inst	text	N/A	optional	Text containing, or specifying where to find, instructions for installing the control item

4.3.3.2.1.4 Host Items Only Screen

The Host Items Only screen (Figure 4.3.3-7) adds, modifies, and deletes information that identifies and characterizes control items that are system hosts. These would be assemblies of processors, software and peripherals such as fully configured servers and workstations, but may include other network-addressable resources for which the data fields on this screen are suited, including routers and switches. The screen accesses only those catalog records whose Item Class field contains the value “host”.

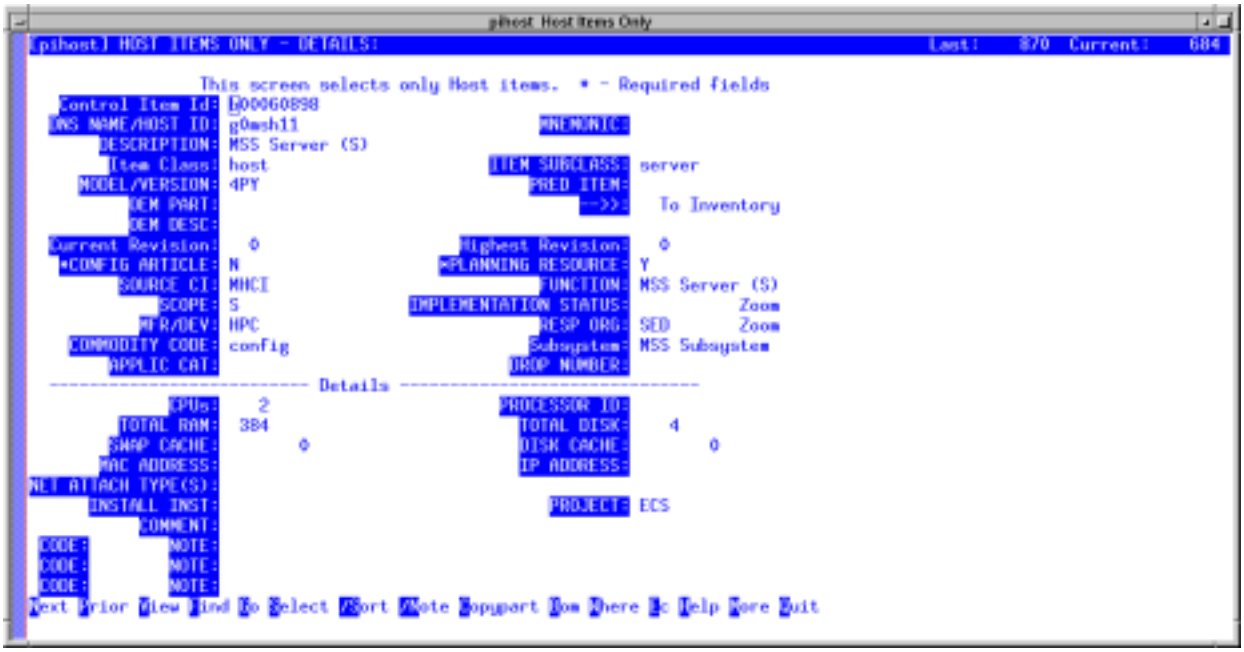


Figure 4.3.3-7. Host Control Items Only CHUI

Fields on this screen that identify a control item correspond to the fields on the All Control Items screen discussed in Section 4.3.3.2.1.1. Additional fields store detailed characteristics applicable only to host items and are described in Table 4.3.3-5.

Use this screen the same way as described earlier for the All Control Items screen.

Table 4.3.3-5. Host Items Only Field Description

Field Name	Data Type	Size	Entry	Description
DNS name/host id	string	24	optional	Local name by which a host is accessed; its Domain Name System name
# cpu's	numeric	4	optional	Number of CPUs in a host
processor id	string	20	optional	Vendor-provided name for a family of processors
total ram	numeric	4	optional	Amount of main memory (in MB) a host contains
total disk	numeric	4	optional	Amount of usable disk space (in GB) for a host
swap cache	numeric	8	optional	Total swap space (in blocks) allocated on a host
disk cache	numeric	8	optional	Total disk cache (in blocks) for a host
MAC address	string	17	optional	Machine's Media Access Control number
IP address	string	15	optional	Network address for a host
IO ports	string	60	optional	List of ports and associated services on a host
install inst	text	N/A	optional	Text containing, or specifying where to find, instructions for installing the control item

4.3.3.2.1.5 Document Items Only Screen

The Document Items Only screen (Figure 4.3.3-8) adds, modifies, and deletes information that identifies and characterizes baselined documents, such as specifications, manuals, and version-controlled forms. The screen accesses only catalog records whose Item Class field contains the value "document".

Fields on this screen that identify a control item correspond to the fields on the All Control Items screen discussed in Section 4.3.3.2.1.1. Additional fields store detailed characteristics applicable only to document items and are described in Table 4.3.3-6.

Use this screen the same way as described earlier for the All Control Items screen.

Figure 4.3.3-8. Document Items Only CHUI

Table 4.3.3-6. Document Items Only Field Descriptions

Field Name	Data Type	Size	Entry	Description
title	string	54	optional	Nomenclature used to identify document volumes
document number	string	24	optional	Code by which a document is known
issue	string	8	optional	Nomenclature used to distinguish among versions of a single edition of a document (e.g., draft, final, …)
publ date	date	N/A	optional	Date associated with a document
latest chg notice	string	6	optional	The most recent change notice or the list of change notices issued for a document
refs	N/A	N/A	optional; zoom to a list of related control items	List of other, associated control items
repository	string	32	optioal	Name for the location where the document is officially kept
format	string	10	optional	Nomenclature for the protocol used to encode the document

4.3.3.2.1.6 Disk Partition Items Only Screen

The Disk Partition Items Only screen (Figure 4.3.3-9) adds, modifies, and deletes information that identifies and characterizes boot and data disk partitions associated with a host computer. It accesses only those catalog records whose Item Class field contains the value “partition”.

Fields on this screen that identify a control item correspond to the fields on the All Control Items screen discussed in Section 4.3.3.2.1.1. Additional fields store detailed characteristics applicable only to disk partition items and are described in Table 4.3.3-7.

Figure 4.3.3-9. Partition Items Only CHUI

Use this screen the same way as described earlier for the All Control Items screen.

Table 4.3.3-7. Partition Items Only Field Descriptions

Field Name	Data Type	Size	Entry	Description
directory name	string	50	optional	Logical name(s) used to access a device
device name	string	32	optional	Physical name used by a machine to access the device
logical allocation	string	32	optional; usually either "system" or "user"	Classification that distinguishes between disk partitions used by the system and those available for use by applications
partition size	numeric	8	optional	Number of blocks or MBs for a device
block size	numeric	4	optional	Size of a block (in bytes) on a device
start block	numeric	15	optional	Block at which the partition starts
total blocks	numeric	15	optional	Total number of blocks in the partition
install inst	text	N/A	optional	Text containing, or specifying where to find, instructions for installing the control item

4.3.3.2.2 Define/Update What Comprises Baselines and Other Control Item Assemblies

Baselines are control items that consist of other control items. They are logical assemblies.

XRP-II uses product structure records to describe assemblies. Each such record defines a single parent-component control item pair and contains data pertinent to the pairing, such as its effective dates and the quantity of the component needed to form the parent.

Product structure records are the basis for XRP-II's bill of material processing. They are used to generate most ECS reports, to extract data for resource planning, and to select control item records to distribute when a baseline change is released. Once the component structure of a baseline (or other configuration assembly) has been recorded, operators can generate multilevel bill of material reports to determine what comprised the baseline on any given date.

Baseline changes entail making product structure changes in XRP-II. The XRP-II construct for this is the engineering change. An engineering change defines for a control item either an initial set of first-level components or a change in the quantity, unit of measure, or effective dates for one or more of the item's components. One engineering change can affect many control items' product structures, and the product structure of any control item can be affected by many engineering changes. Operators can associate a revision code with an engineering change to an item. Unlike version codes (which connote a level of form, fit, and function and thus remain unchanged once assigned to a control item), revision codes help distinguish among changes in the composition of a control item that do not warrant defining a new item. Operators also can associate a configuration change request and/or trouble ticket number with an engineering change in order to document the basis for implementing it. Engineering changes can be recorded in Baseline Manager at any time, but they must be marked "approved" before any effective dates can be recorded.

The four data entry screens operators use to maintain product structure data are each accessed from the Bill of Material menu shown in Figure 4.3.3-10. The first two screens are presented in the sections below. The last two are described in section 4.4 of the Product Information Manual.

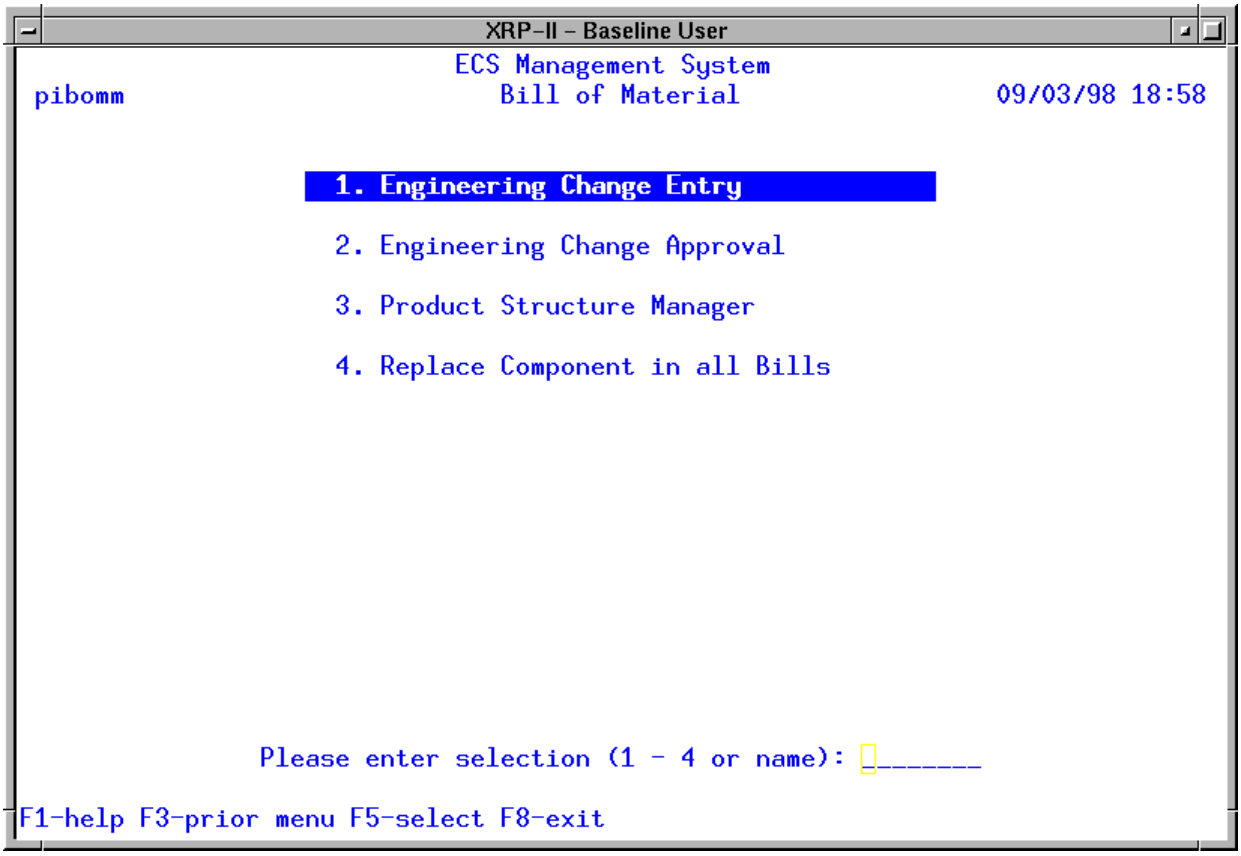


Figure 4.3.3-10. Bill of Material Menu

Note: Each engineering change to a control item can redefine more than one of the pairings between it and a component but can include only one new definition per component. Each definition specifies a contiguous timespan during which the affected relationship is in effect. XRP-II adjusts all previously defined dates for any pairings with which the new definitions conflict.

Note: A revision code reflects the set of component-level changes to a control item that are associated with a specific engineering change. If revision codes are also to be used to differentiate all the bills of material for the control item over time, each engineering change for the item must define at most one new bill. This happens only when all the component changes it defines for the item carry the same effective dates.

Note: XRP-II uses two fields -- Active Date and Inactive Date -- to represent effectivity dates for individual product structure records. Valid values for these fields include the code "**/**/**" and the dates Jan 1, 1920 through Dec 31, 2019. XRP-II interprets the code "**/**/**" as first system date when it is used as a product structure's Active Date, and as last system date when it is used as an Inactive Date.

Note: Site-unique engineering changes should be assigned numbers having the site's designated 3-character prefix so the changes can be exported for consolidation at the SMC (see Section 4.3.3.2.11.9).

4.3.3.3.2.1 Engineering Change Entry Screen

Operators use the screen shown in Figure 4.3.3-11 whenever an engineering change for a control item is to be defined or modified but has not yet been approved. It allows new product structures to be created but prevents processing of effectivity dates. Consequently, bills of material for approved assemblies remain unaffected. The screen is similar to the Engineering Change Maintenance screen described in the Section 4.3 of the Product Information Manual, differs as follows:

- Fields for project, CCR #, TT, baseline/release and approval date appear in lieu of certain other fields not pertaining to baseline management. Each is an information only field that is described in Table 4.3.3-8.
- Values for the approval code and date and for the active and inactive dates are system supplied by the system; they can only be changed via the Engineering Change Approval screen (see Section 4.3.3.3.2.2). This allows operators to record new product structure data without causing premature adjustments to effective dates of existing bills of material. Active and inactive dates default to the last system date: December 31, 2019.
- The **I**tems bottom-line command can be used irrespective of the approval code's value.

Enter information about an engineering change using Table 4.3.3-8 as a guide, then use the **I**tems bottom-line command to create or modify the list of components for the parent control item's product structure. The Items page (Figure 4.3.3-12) is the same as that described in Section 4.3 of the Product Information Manual, but without the "offset" field which is not used in Baseline Manager. Be sure to enter an appropriate quantity for each component. Components having zero quantity will not appear in their parent's bill of materials.

Figure 4.3.3-11. Engineering Change Entry CHUI

Table 4.3.3-8. Engineering Change Entry Field Descriptions (1 of 2)

Field Name	Data Type	Size	Entry	Description
parent part	string	20	required; zoom to a list of control items	Identifier of the control item associated with the engineering change
engineering change	string	8	required	Number that uniquely identifies every product structure change action
name	string	24	system supplied	Name by which a specific control item is known
model/version	string	24	system supplied	Textual identifier for a level of functional capability for a control item
project	string	10	optional; defaults to “ECS”	Name of the principal project under which the item was procured or developed
date entered	date		system supplied	Date that the ECN was created
operator id	string		system supplied	Identifier of the operator who created the ECN

Table 4.3.3-8. Engineering Change Entry Field Descriptions (2 of 2)

Field Name	Data Type	Size	Entry	Description
approval date	date	N/A	system supplied	Date an engineering change is formally sanctioned by an approval authority
approval code	string	1	system supplied; defaults to “E” for entered	Code that distinguishes among lifecycle stages for engineering changes; must be "A" (approved) for active date to be set
ccr #	string	30	optional	Reference to the CCR authorizing the configuration change
tt	string	15	optional	Reference to the trouble ticket authorizing the configuration change
sort order	string	1	optional ; P, R, or S	Code that specifies how component parts are to be sorted on an engineering change screen's items page
drawing	string	20	optional	Control item identifier of a drawing associated with a control item and engineering change
revision	string	3	optional	Change level for a control item that has undergone a product structure change
implementation code	string	2	optional	Code that distinguishes between permanent and temporary changes
baseline/release	string	24	optional	Name, version, description, or identifier of a baseline with which an engineering change is associated
active date	date	N/A	system supplied	Date on which a product structure relationship between two control items is effective
inactive date	date	N/A	system supplied	Date on which the subject product structure is to be obsoleted or superceded

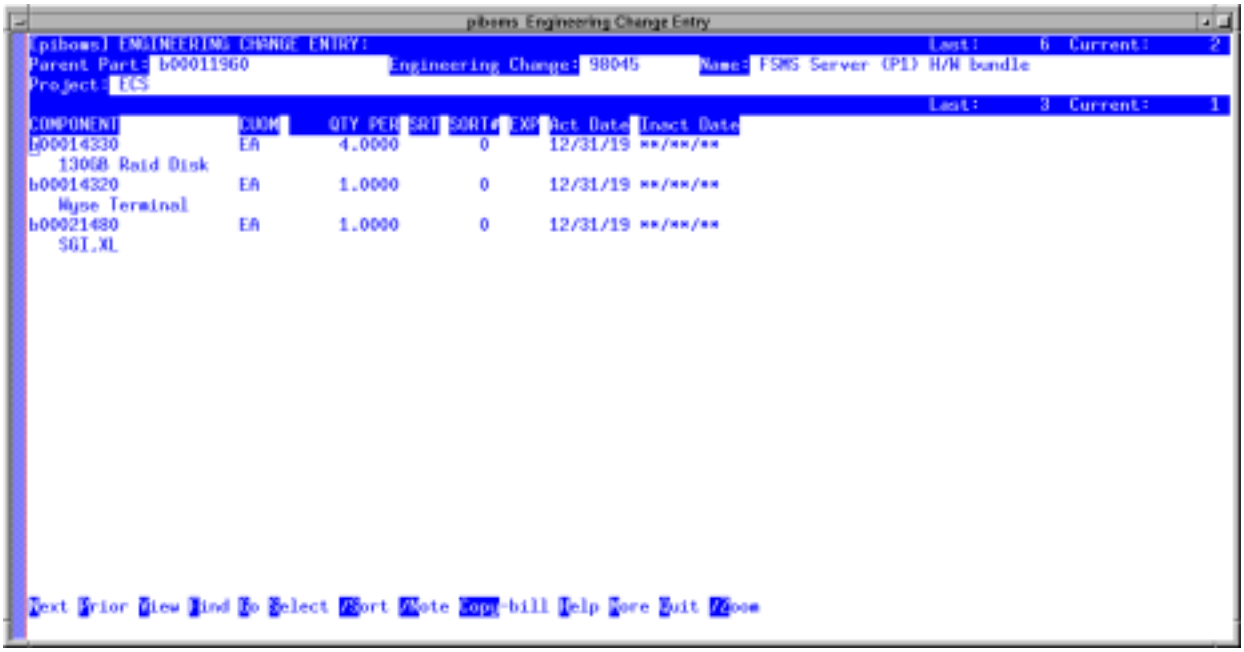


Figure 4.3.3-12. Engineering Change Entry's Items CHUI

4.3.3.2.2.2 Engineering Change Approval Screen

Operators use the Engineering Change Approval screen to define or update approved engineering changes or to upgrade the status of a previously entered one to "approved". As shown in Figure 4.3.3-13, this screen is the same as the Engineering Change Entry screen, except that it can modify the approval code and date. Changing the approval code to "A" for approved enables active and inactive date fields, allowing operators to set effectivity dates for new product structures.

Enter the new approval code and optional approval date, then add an active and inactive date. These active and inactive entries are used as defaults on the Items page (Figure 4.3.3-12 above) when adding records to the parent's component list. The **C**opy-dates bottom-line command, described in Section 4.3.9.1 of the Product Information Manual, can be used to propagate active and inactive dates to component items already in the list.

Figure 4.3.3-13. Engineering Change Approval CHUI

Table 4.3.3-9. Engineering Change Approval Field Descriptions (1 of 2)

Field Name	Data Type	Size	Entry	Description
parent part	string	20	required	Identifier of the control item associated with the engineering change
engineering change	string	8	required	Number that uniquely identifies every product structure change action
name	string	24	system supplied	Name by which a specific control item is known
model/version	string	24	system supplied	Textual identifier for a level of functional capability for a control item
project	string	10	optional	Name of the principal project under which the item was procured or developed
date entered	date	N/A	system supplied	Date that the ECN was created
operator id	string	8	system supplied	Identifier of the operator who created the ECN
approval date	date		optional	Date an engineering change is formally sanctioned by an approval authority

Table 4.3.3-9. Engineering Change Approval Field Descriptions (2 of 2)

Field Name	Data Type	Size	Entry	Description
approval code	string	1	optional; default is “E” (entered)	Code that distinguishes among lifecycle stages for engineering changes; must be "A" (approved) for active date to be set
ccr #	string	30	optional	Reference to the CCR authorizing the configuration change
tt	string	15	optional	Reference to the trouble ticket authorizing the configuration change
sort order	string	1	P, R, or S	Code that specifies how component parts are to be sorted on an engineering change screen's items page
drawing	string	20	optional	Control item identifier of a drawing associated with a control item and engineering change
revision	string	3	optional	Change level for a control item that has undergone a product structure change
implementation code	string	2	optional	Code that distinguishes between permanent and temporary changes
baseline/release	string	24	optional	Name, version, description, or identifier of a baseline with which an engineering change is associated
active date	date	N/A	optional; default is the latest specifiable system date	Date on which a product structure relationship between two control items is effective. The code **/**/** means first system date when used with this field
inactive date	date	N/A	optional; default is last system date (**/**/**)	Date on which the subject product structure is to be obsoleted or superceded. The code **/**/** means last system date when used with this field

4.3.3.2.2.3 Product Structure Maintenance

This function is a standard XRP-II function described in the documentation referenced in Section 4.3.3.

4.3.3.2.2.4 Replace a Component in All Bills

This function is a standard XRP-II function described in the documentation referenced in Section 4.3.3.

4.3.3.2.3 Distribute Baseline Change Records for a Release

Appropriate baseline management data can be distributed to affected sites whenever a new baseline, configuration item, or other control item is released. This data includes control item catalog,

product structures, engineering changes, and implementation status records pertaining to the control item being released and all the items in its bill of materials.

Operators use the Export Release Records utility to generate and tar formatted files that can be shipped to any ECS site for loading into XRP-II there. The program is accessed via the System Utilities menu and is described in Section 4.3.3.2.11.8.

4.3.3.2.4 Incorporate Release/Baseline Change Records Into XRP-II

Occasionally, Baseline Manager data must be loaded into XRP-II in bulk. The data, stored as a tar file, is usually received in support of a new release being distributed to the sites or a consolidation of site baseline changes at the SMC.

Operators load this data using XRP-II's Import BLM Records utility. This program is accessed via the System Utilities menu and is described in Section 4.3.3.2.11.7.

4.3.3.2.5 Provide Site Baseline Change Records to the SMC

The Baseline Manager at the SMC can maintain consolidated records about operational baselines system-wide. Records created at local sites are shipped to the SMC where they are added to records centrally created at the SMC. To distinguish among them, centrally-created records begin with a number, while records originating at a site have a 3-character site prefix.

Baseline Manager supports this cross-site database synchronization with a transaction log and a program accessed via the System Utilities menu. XRP-II automatically logs a transaction whenever the contents of a Baseline Manager field changes. Operators at the sites periodically use the Export Site-Unique Change Records utility to generate a formatted data file based on transactions logged but not previously reported. Operators can have XRP-II ftp the file to the SMC where SMC operators can load the data into the Baseline Manager there. Details about the transaction log and the Export Site-Unique Change Records utility can be found in the discussions about system utilities within Section 4.3.3.2.11.

4.3.3.2.6 Maintain Control Item Implementation Status Data

Baseline Manager can maintain status information about the implementation of control items. For each item, an operator can create a record for a site and specify its implementation status and installation date. Deployment records about core and site-specfic control items would normally be maintained at the SMC and distributed whenever a set of release records is shipped to the sites. The implementation status of these items is maintained at the sites, as are like records about site-unique control items (those established at a site). Status updates for the site-unique control items are shipped to the SMC whenever site-unique changes are reported (see Sections 4.3.3.2.5 and 4.3.3.2.11.9). However, status updates that the sites make locally to release records maintained centrally by the remain at the sites so that SMC deployment data is preserved.

Operators must maintain implementation status records because several Baseline Manager functions depend on them. For example, reports that list control items according to site are generated using these records to determine the site(s) under which the item should appear. This includes the

Configuration Item List reports, the Configured Article List report, and the Version Description report. Also, the resource configuration file created for resource planners is built using these records to determine which of the site's operational baseline records has "production" status.

Operators use the Implementation Status Maintenance data entry screen to create and update these records. This screen can be accessed via the Utilities menu and is described in Section 4.3.3.2.10.3.

4.3.3.2.7 Update Dependencies Among Control Items

Individual control items can have relationships -- or interdependencies -- among each other that need to be tracked. For example, application software needs certain operating system versions in order to function correctly, specification documents are associated with specific subsystems and configuration items, certain manuals describe particular configured articles, and each operational baseline derives from a specific release baseline.

XRP-II correlates interdependent pairs of control items via the Control Item Interdependency Maint(enance) screen. The screen is accessible from the Utilities menu and is described along with other baseline management utilities within Section 4.3.3.2.10.

4.3.3.2.8 Query Control Item Records

Operators granted read only permissions to Baseline Manager can retrieve, sort, filter and generate ad hoc reports of XRP-II database records using eight screens accessed from the Query menu (Figure 4.3.3-14). The six "items" screens closely mirror database update screens described earlier (Section 4.3.3.1.3), with an added field to display an item's local implementation status. The menu also has two screens for querying product structure and engineering change records, respectively.

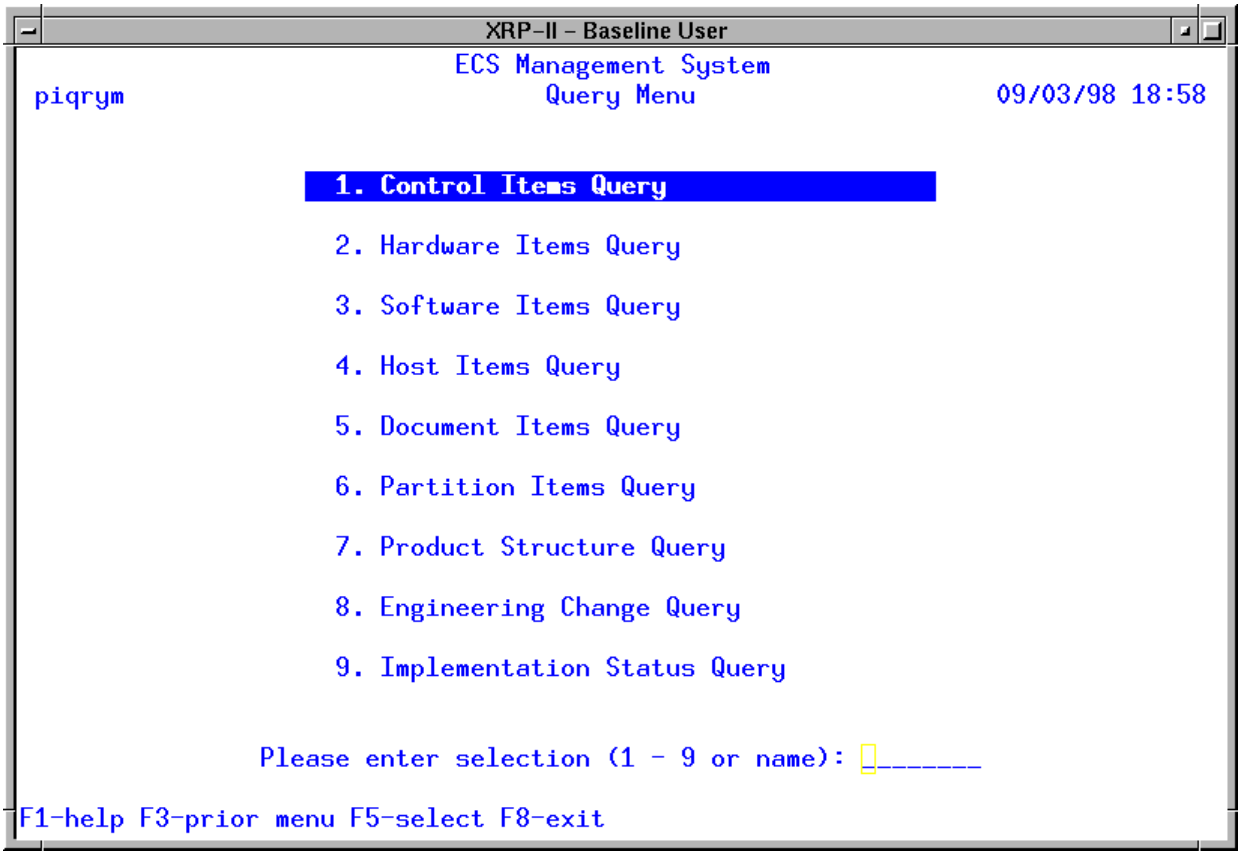


Figure 4.3.3-14. Query Menu

Use the Control Items Query screen to browse the entire control item catalog minus its configuration details. To view full configuration details, use the individual query screens designed specially for hardware, software, document, host, and disk partition items.

Use the Product Structure Query screen to browse historical product structure records and display information about any parent-component control item pair. This is helpful, for example, when trying to determine why a control item is not appearing in a bill of materials as expected. Descriptions of this screen's fields can be found in Section 4 of the Product Information Manual.

Use the Engineering Change Query screen to browse the chronology of changes to a particular control item and examine which control items were affected by each engineering change. The fields on this screen match those on the Engineering Change Entry screen. Refer to Section 4 of the Product Information Manual and Section 4.3.3.1.4.1 above for descriptions of these fields.

4.3.3.2.9 Generate Pre-defined Reports

XRP-II produces several reports specifically tailored to support ECS configuration management activities. All contain information derived from records stored only in the XRP-II database on the host where the report is requested. Reports can be written to the default printer in effect via the operator's environment settings when XRP-II is started, unless XRP-II has been configured to recognize specific print device destinations (see Section 4.3.3.2.11.7).

Some reports accept a range of control items on which to report. Ranges are specified the same way as when using the Select and Find bottom-line commands on data entry screens. Section 3.4.5 in the System Reference Manual explains how to enter range selection specifications.

All pre-defined reports available to the operator are accessed via XRP-II's Report menu (Figure 4.3.3-15). Screens for generating multilevel bill, summarized bill, and multilevel where-used reports are fully described in Sections 6.5, 6.7, and 6.9 of the Product Information Manual. The remaining reports are described in the sections below. Section 4.3.3.8.1 contains samples.

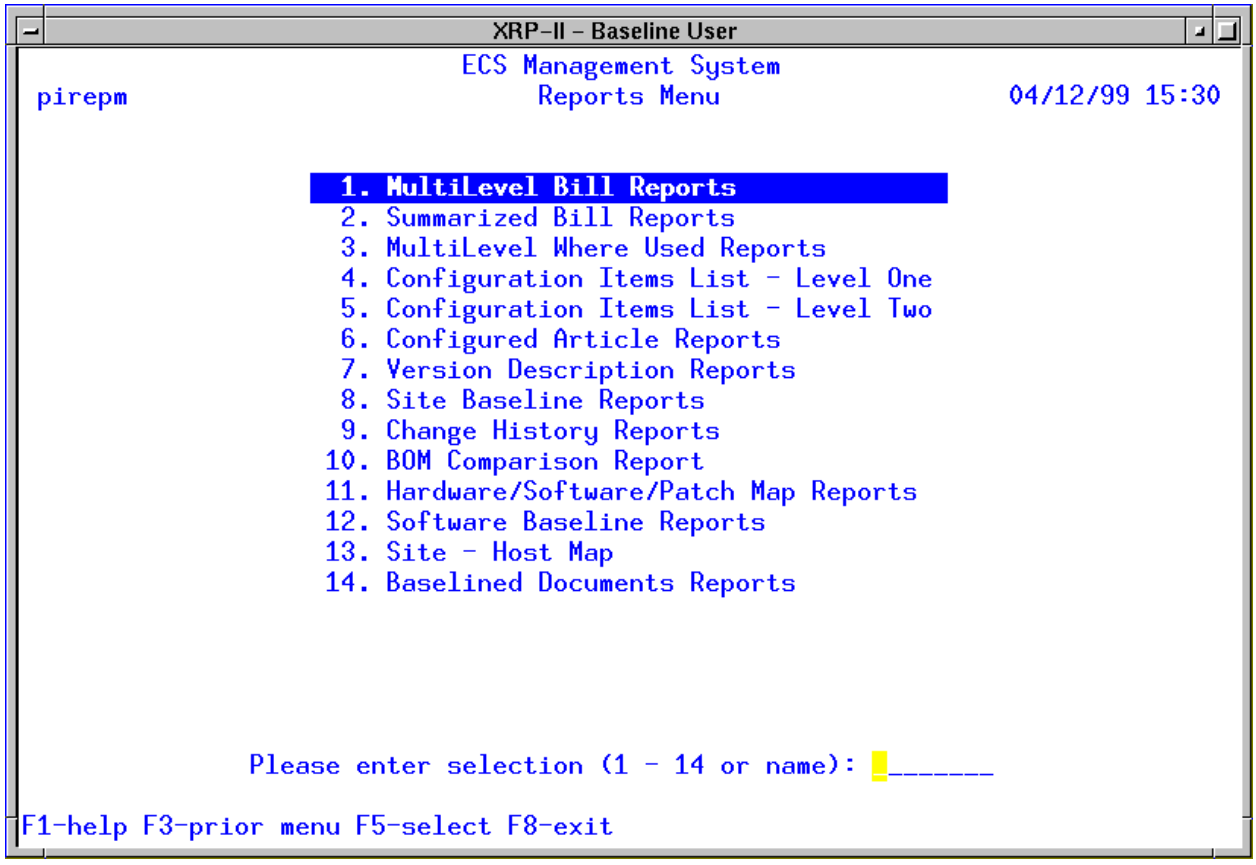


Figure 4.3.3-15. Reports Menu

4.3.3.2.9.1 Configuration Items List - Level One Screen

Operators use the screen depicted in Figure 4.3.3-16 to produce a list of ECS hardware and computer software configuration items (HWCIs and CSCIs) grouped by subsystem. Table 4.3.3-10 describes the screen's fields.

Specify a site or range of sites, a date for the configuration, and the number of copies of the report wanted. Then enter "**E**" for execute. XRP-II will report all ECS configuration items active and deployed at the specified sites as of the specified date.

Note: An implementation status record corresponding to the specified site or sites must exist in order for a HWCI or CSCI control item to appear in the report.

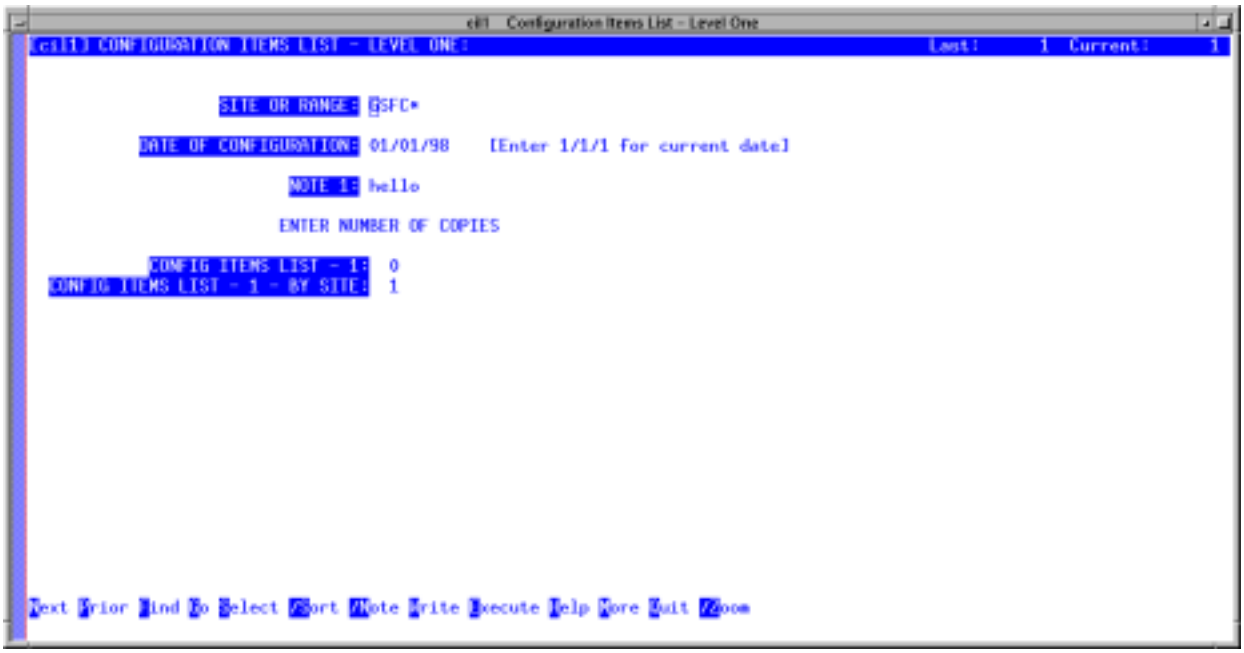


Figure 4.3.3-16. Configuration Items List - Level One CHUI

Table 4.3.3-10. Configuration Items List - Level One Field Descriptions

Field Name	Data Type	Size	Entry	Description
site or range	string	16	required; zoom to select from a list of sites	Short name for an ECS site
date of configuration	date	N/A	required	"As of " date used in selecting records from the configuration history of the site(s)
note 1,2	string	40	optional	Textual information to be added to the header of the report
configuration items list-1	numeric	2	required	Number of copies wanted
config items list -1-by site	numeric	2	required	Number of copies wanted

4.3.3.2.9.2 Configuration Items List - Level Two Screen

Operators use the screen in Figure 4.3.3-17 to produce a consolidated list of the ECS HWCI and CSCI design components deployed at a specified site(s). Components are grouped by subsystem and configuration item that own them.

This screen's fields are the same as those used to generate the Configuration Items List - One report, except the label for the number of copies reflects the name of this report. Table 4.3.3-10 above describes the fields.

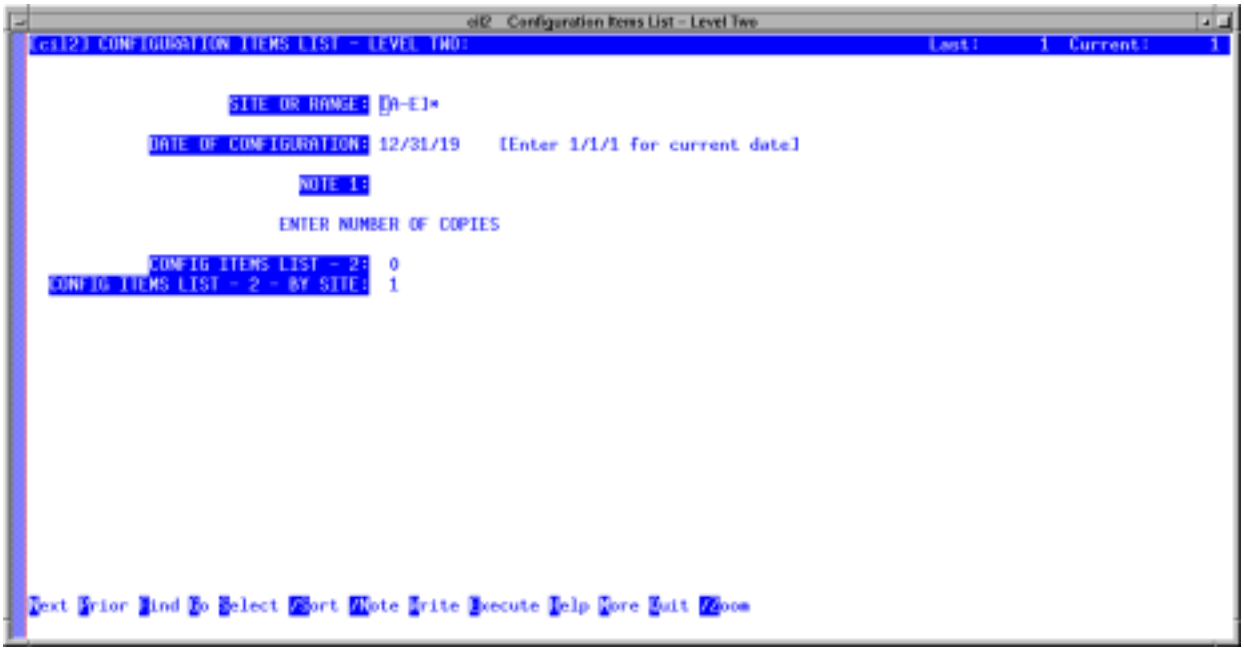


Figure 4.3.3-17. Configuration Items List - Level Two CHUI

Specify a site or range of sites, a date for the configuration, and the number of copies of the report wanted. Then enter "**E**" for execute. XRP-II will report all ECS design components active and deployed at the specified sites as of the specified date.

Note: An implementation status record corresponding to the specified site or sites must exist in order for a component to appear in the report.

4.3.3.2.9.3 Configured Articles Reports Screen

This screen (Figure 4.3.3-18) generates a list of the approved set of ECS configured articles in effect on a specified date at a specified site or sites, grouping the articles by parent configuration item. Its fields are the same as those used to generate the Configuration Items List - One report, except the label for the number of copies reflects the name of this report. Table 4.3.3-10 above describes the fields.

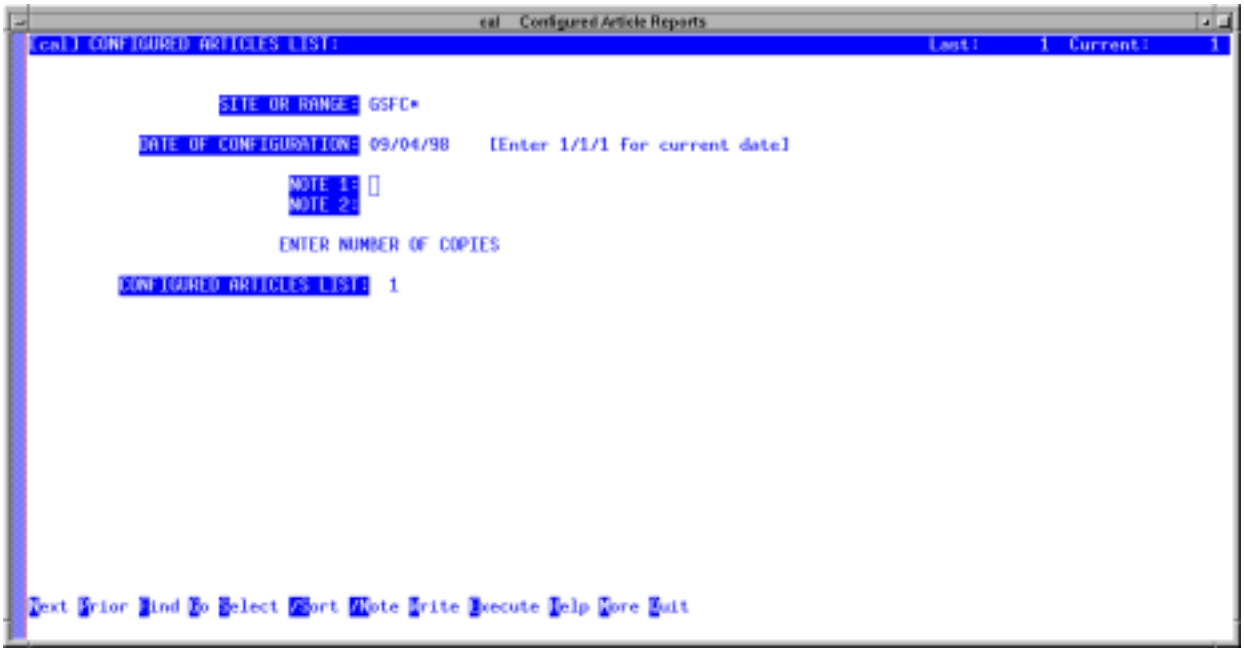


Figure 4.3.3-18. Configured Articles Reports CHUI

Specify a site or range of sites, a date for the configuration, and the number of copies of the report wanted. Then enter "**E**" for execute. XRP-II will report all active ECS configured articles for the specified sites as of the specified date.

Note: A corresponding implementation status record must exist in order for a configured article to appear in the list of articles for a site.

4.3.3.2.9.4 Version Description Reports Screen

The Version Description Reports screen (Figure 4.3.3-19) is used to generate a summarized bill of the approved set of ECS configured articles for a specified configuration item, subsystem, or release. This screen's fields are the same as those used to generate the Configuration Items List - One report, except the label for the number of copies reflects the name of this report. Table 4.3.3-10 above describes the fields.

Specify a site or range of sites, a date for the configuration, and the number of copies of the report wanted. Then enter "E" for execute. XRP-II will report all active ECS configured articles for the specified sites as of the specified date.

Note: A corresponding implementation status record must exist in order for a configured article to appear in the list of articles for a site.

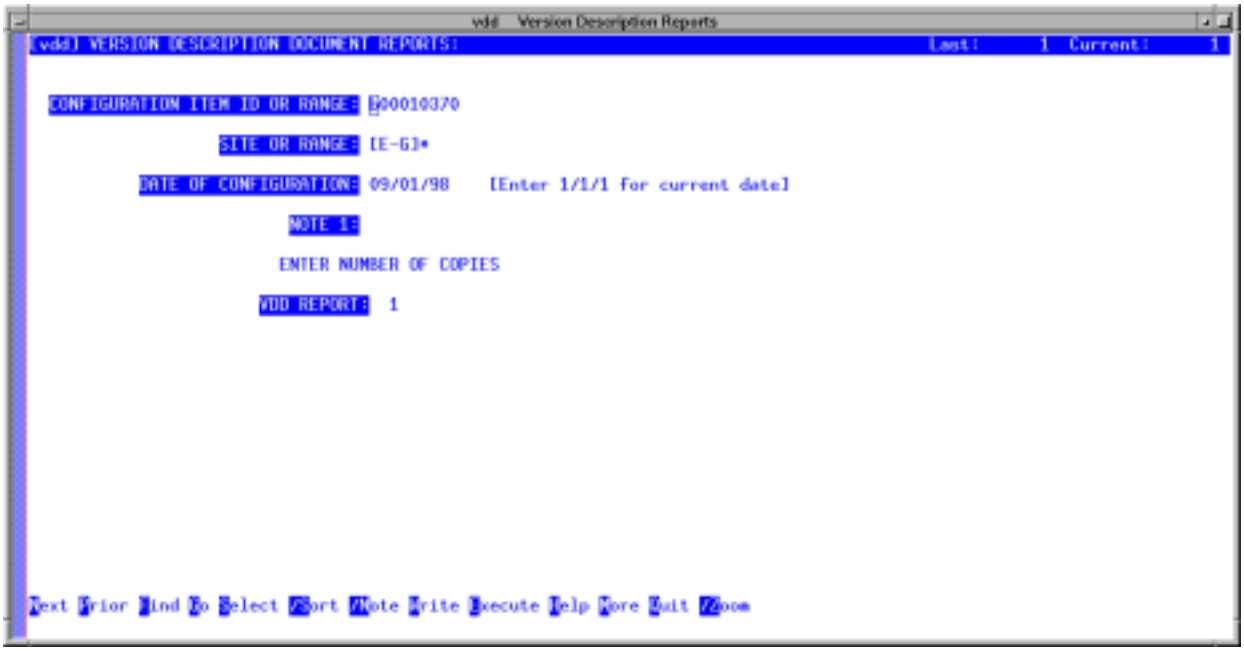


Figure 4.3.3-19. Version Description Reports CHUI

4.3.3.2.9.5 Site Baseline Reports Screen

Operators use the Site Baseline Report screen to produce an indented bill of materials that lists what comprises one or more sites' operational baselines down to the configured article level. The screen works the same as the multilevel bill screen described in Section 6.5 of the Product Information Manual, except it rejects identifiers for items that are not members of class "baseline".

Specify the identifier of the baseline control item and date of bill, then set the remaining parameters for the report. Enter "**E**" for execute. XRP-II will report all ECS configured articles active and deployed as part of the specified baseline.

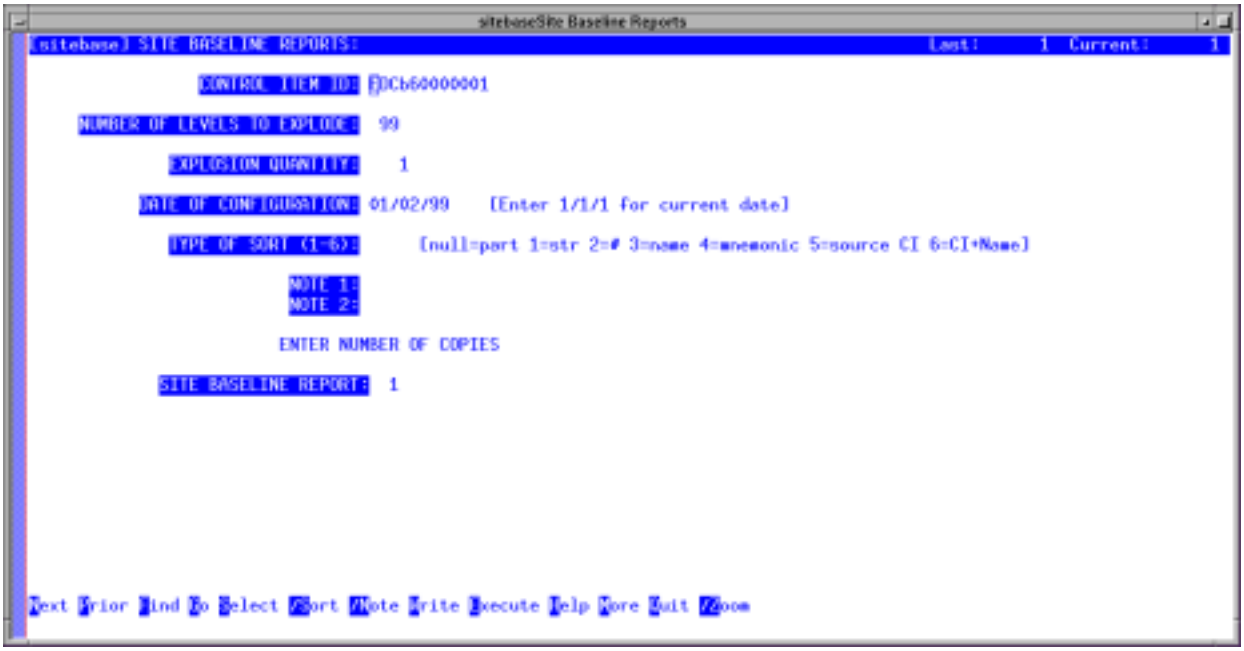


Figure 4.3.3-20. Site Baseline Reports CHUI

4.3.3.2.9.6 Change History Reports Screen

The Change History Reports screen (Figure 4.3.3-21) generates a list containing the revision history of an ECS control item. Table 4.3.3-11 describes the screen's fields.

Specify the control item's identifier, then enter "**E**" for execute. XRP-II will report all versions and product structure revisions for the specified item together with details associated with the item change.

Figure 4.3.3-21. Change History Reports CHUI

Table 4.3.3-11. Change History Reports Field Descriptions

Field Name	Data Type	Size	Entry	Description
control item id	string	20	required; zoom to select from a list of control items	Unique code for a version- or configuration-controlled item
note	string	40	optional	Textual information to be added to the header of the report
change history report	numeric	2	required	Number of copies wanted

4.3.3.2.9.7 BOM Comparison Reports Screen

The BOM Comparison Reports screen (Figure 4-3.3-22) generates a list of the differences in the bills of material for any two control items. Operators use it, for example, to determine how approved operational baselines at two sites differ. Table 4.3.3-12 describes the screen's fields.

Specify identifiers for the two control items whose bills are to be compared. Next, indicate a bill of materials date for the comparison and the number of report copies wanted. Then enter "**E**" for execute, and XRP-II will produce a four-part report. For each of the two control items, XRP-II will first list all the control items that are in its bill and in the other's, then all the control items in its bill that are not in the other's.

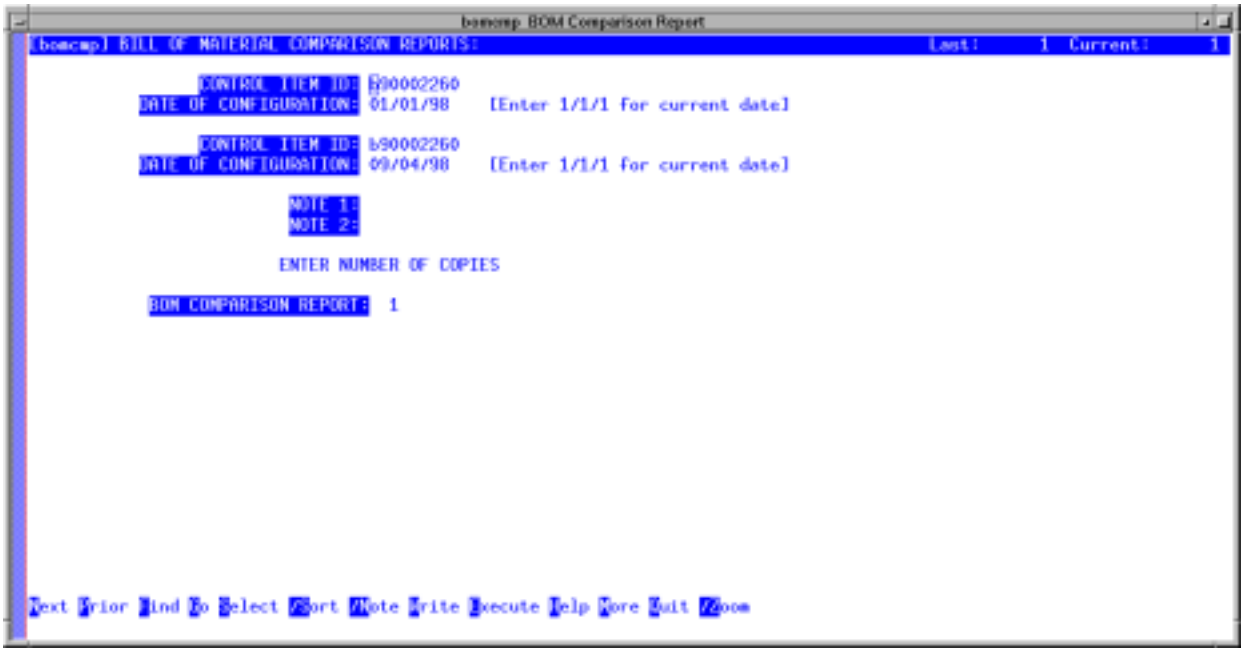


Figure 4.3.3-22. BOM Comparison Reports CHUI

Table 4.3.3-12. BOM Comparison Reports Field Descriptions

Field Name	Data Type	Size	Entry	Description
control item id	string	20	required; zoom to select from a list of control items	Unique code for a version- or configuration-controlled item
date of bill	date		required	“As of “ date used in selecting records from the configuration history of the control item
note	string	40	optional	Textual information to be added to the header of the report
bom comparison reports	numeric	2	required	Number of copies wanted

4.3.3.2.9.8 Hardware/Software/Patch Map Reports Screen

The Hardware/Software/Patch Map Reports screen (Figure 4-3.3-23) is used to produce special lists of the control itemsneeded for each host in a specified baseline. Selections are available for generating lists of hardware items, software programs, and software patches. For software programs, operators can choose from among three formats, two of which include program version

information and identify “bundles” in which functionally identical hosts’ programs are grouped. Operators also have options for sorting the items in a report -- the sort is applied to components by assembly -- butcurrent report layouts assume items will be sorted by name. Table 4.3.3-13 describes the screen’s fields.

Specify the control item identifier and date of bill for the baseline or assembly of interest. Next, specify “**3**” (name) for type of sort and a document number and/or note to be included on each page. Specify the number of report copies wanted, then enter “**E**” for execute. XRP-II will report, by subsystem and host, all software and firmware the host should contain.

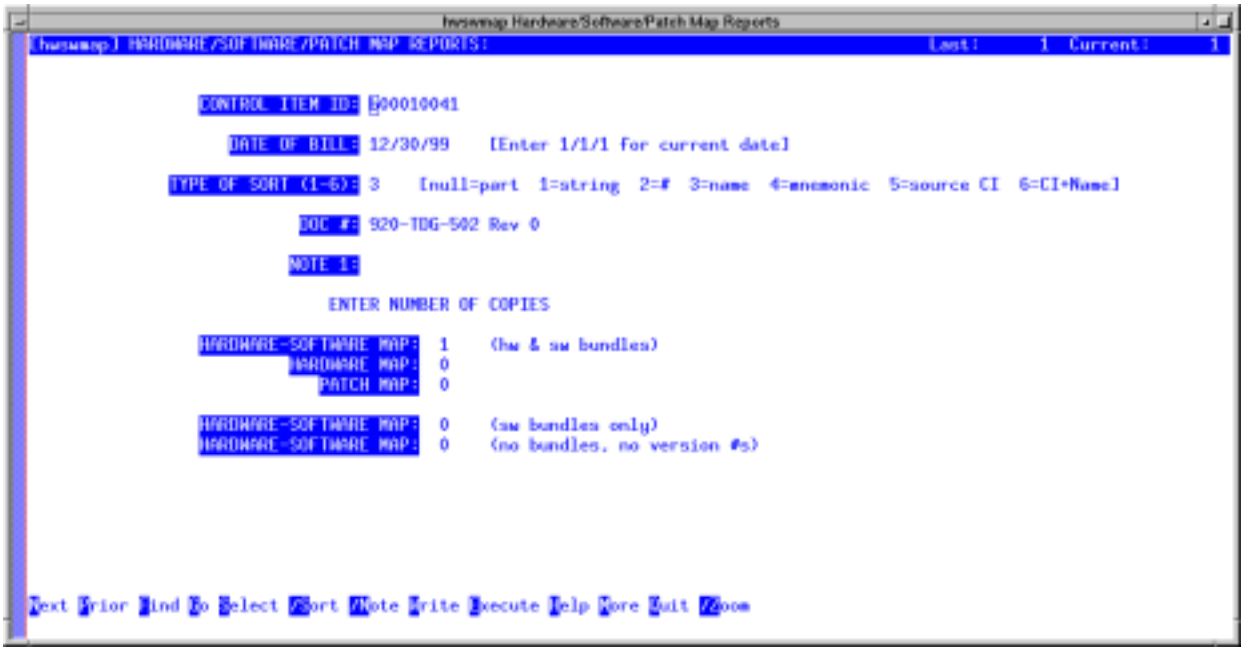


Figure 4.3.3-23. Hardware/Software/Patch Map Reports CHUI

Table 4.3.3-13. Hardware/Software/Patch Map Reports Field Descriptions

Field Name	Data Type	Size	Entry	Description
control item id	string	20	required; zoom to select from a list of control items	Unique code for a version- or configuration-controlled item
date of bill	date		required	"As of " date used in selecting records from the configuration history of the control item
type of sort	string	1	optional	Code that specifies the field(s) to be used in sorting the data for the report
doc #	string	40	optional	Textual information to be printed as the document number in the header of the report
note 1	string	40	optional	Textual information to be printed as a note in the header of the report
hardware - software map	numeric	2	required	Number of copies wanted
hardware map	numeric	2	required	Number of copies wanted
patch map	numeric	2	required	Number of copies wanted

4.3.3.2.9.9 Software Baseline Reports Screen

Operators use the Software Baseline Reports screen (Figure 4-3.3-24) to generate lists of the software items in a specified baseline or assembly. COTS Software Version Baseline reports list COTS programs, while Patch Baseline reports list patches. The reports list items according to function the item performs and provides key details about the item. Table 4.3.3-14 describes the screen's fields.

Specify the control item identifier and date of bill for the baseline or assembly of interest. Add a document number and/or note to be included on each page, as well as the number of report copies wanted. Enter "**E**" for execute, and XRP-II will report all the software and firmware items in the baseline or assembly.

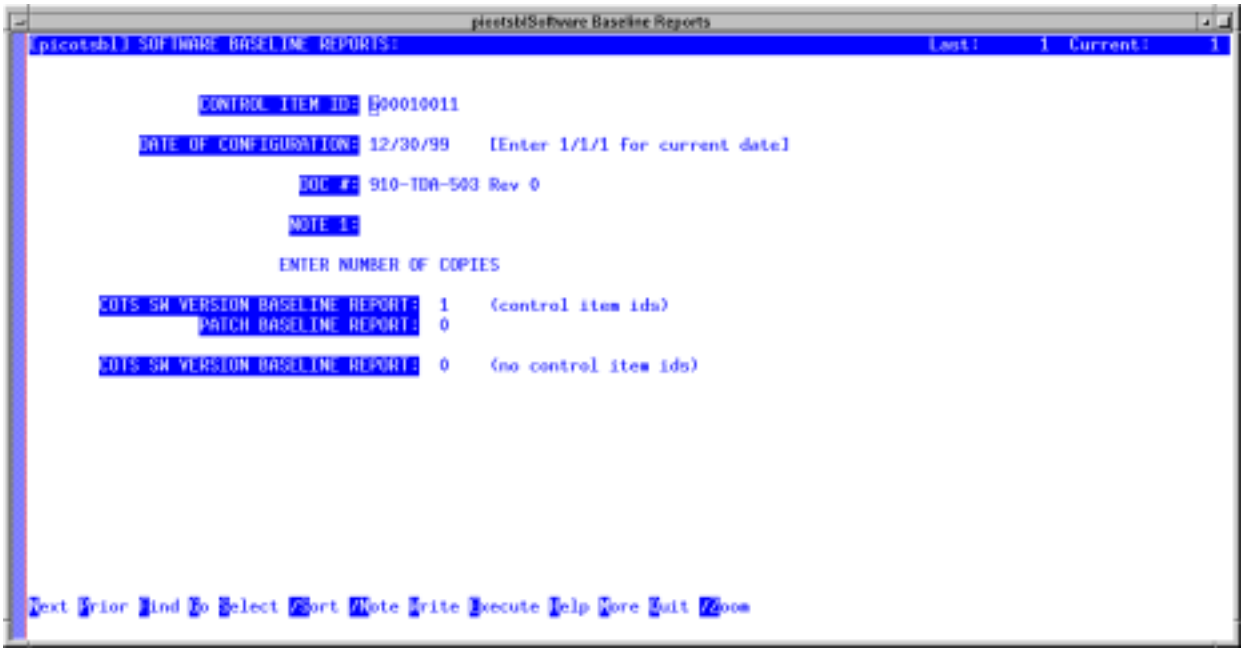


Figure 4.3.3-24. Software Baseline Reports CHUI

Table 4.3.3-14. Software Baseline Reports Field Descriptions

Field Name	Data Type	Size	Entry	Description
control item id	string	20	required; zoom to select from a list of control items	Unique code for a version- or configuration-controlled item
date of bill	date		required	“As of “ date used in selecting records from the configuration history of the control item
doc #	string	40	optional	Textual information to be printed as the document number in the header of the report
note	string	40	optional	Textual information to be added to the header of the report
COTS SW version baseline report	numeric	2	required	Number of copies wanted
patch baseline report	numeric	2	required	Number of copies wanted

4.3.3.2.9.10 Site - Host Maps Screen

Operators use the Site - Host Maps screen (Figure 4-3.3-25) to generate reports that identify which hosts perform the same primary function at each ECS site for a specified baseline. Two report formats are available: one lists hosts for the operational sites, while the other includes hosts at select EDF facilities as well. Table 4.3.3-15 describes the screen's fields.

Specify the control item identifier and date of bill for the baseline or assembly of interest, then specify whether data is to be retrieved for all sites for which there is data or just the local site. Next, enter "**3**" for the type of sort and, if desired, add a document number and/or note to be included in the header for each page in the report. Enter the number of copies for the desired report, then hit "**E**" for execute. XRP-II will list -- by subsystem, source CI, and function -- the hosts at each site that perform a given function.

Note: For a host to appear in the report, the database must contain at least one implementation status record designating a site at which the host is deployed.

Note: The screen allows the operator to specify an order in which data is to be presented. However, the report's layout is best suited to reporting by name.

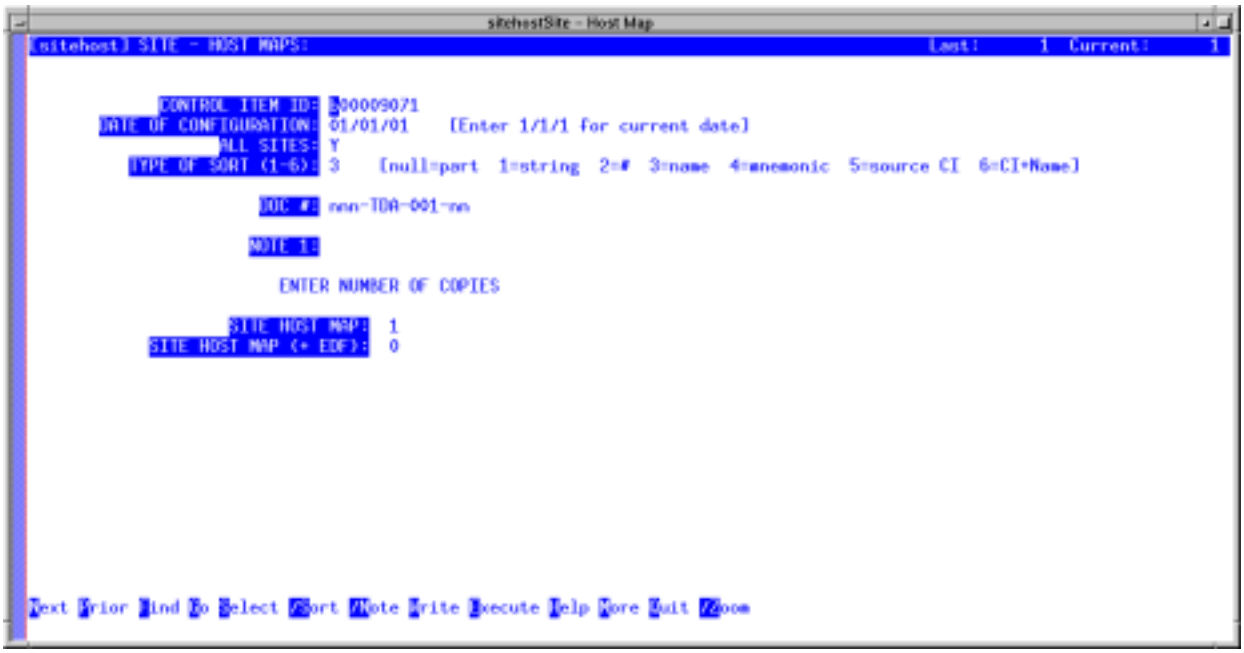


Figure 4.3.3-25. Site - Host Maps CHUI

Table 4.3.3-15. Site - Host Maps Field Descriptions

Field Name	Data Type	Size	Entry	Description
control item id	string	20	required; zoom to select from a list of control items	Unique code for a version- or configuration-controlled item
date of bill	date		required	"As of " date used in selecting records from the configuration history of the control item
all sites	string	1	optional; Y or N; defaults to "N"	Code that specifies whether to report information about all sites or just the local site
type of sort	string	1	optional	Code that specifies the field(s) to be used in sorting the data for the report
doc #	string	40	optional	Textual information to be printed as the document number in the header of the report
note	string	40	optional	Textual information to be added to the header of the report
site - host map	numeric	2	required	Number of copies wanted

4.3.3.2.9.11 Baselined Documents Reports Screen

The Baselined Documents Reports screen (Figure 4-3.3-26) is used to list the documents that define a specific baseline. Presently, the relationship between a baseline and a set of baseline documents is implemented in XRP-II via its product structure feature. That is, a baseline is represented as a control item whose components include documents as well as hardware, software, and other system resources. A baselined documents report, therefore, is a specially-formatted list of the documents in the bill of material for a baseline. Two reports are available, one sorted by document numbers and one sorted by title. Table 4.3.3-16 describes the screen's fields.

Specify the control item identifier and date of bill for the baseline or assembly of interest. Add a document number and/or note to be included on each page, as well as the number of copies of each report wanted. Enter "**E**" for execute, and XRP-II will compile the requested list of documents together with key details about each.

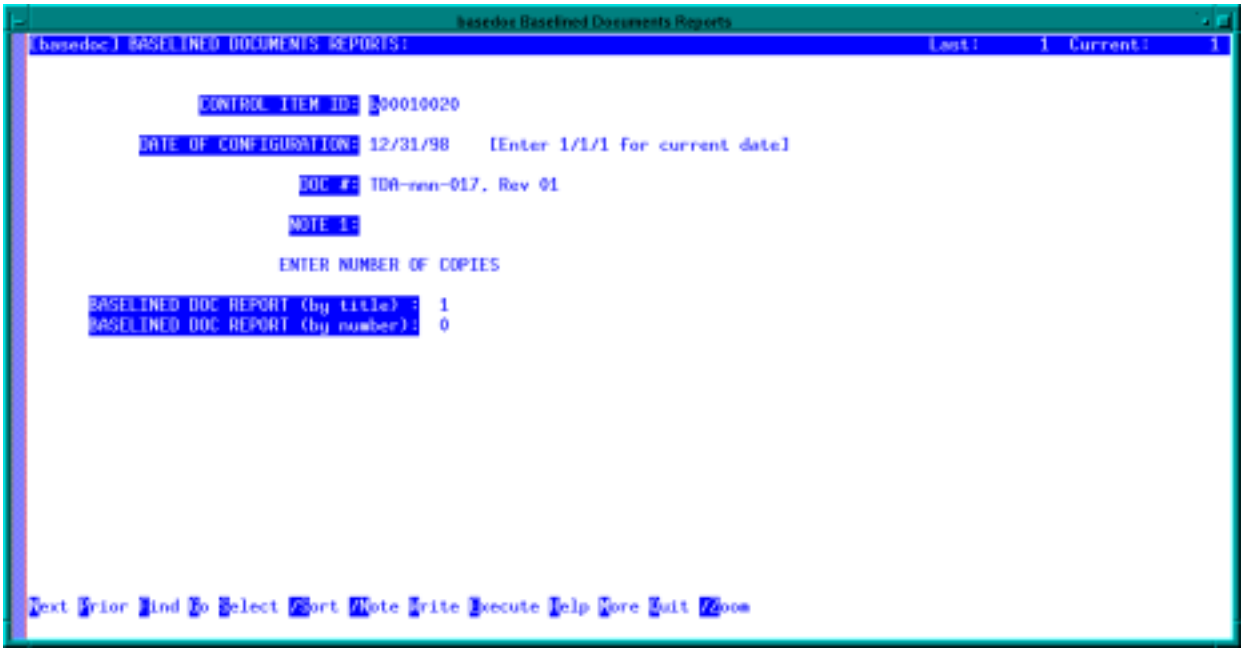


Figure 4.3.3-26. Baselined Documents Reports CHUI

Table 4.3.3-16. Baselined Documents Reports Field Descriptions

Field Name	Data Type	Size	Entry	Description
control item id	string	20	required; zoom to select from a list of control items	Unique code for a version- or configuration-controlled item
date of bill	date		required	"As of " date used in selecting records from the configuration history of the control item
doc #	string	40	optional	Textual information to be printed as the document number in the header of the report
note	string	40	optional	Textual information to be added to the header of the report
baselined documents report	numeric	2	required	Number of copies wanted

4.3.3.2.10 Perform Baseline Management Master Files Maintenance

XRP-II groups together several programs that help standardize values for certain baseline management data, support product structure administration, and manage types of data for which a

separate menu is not warranted. The screens supporting these programs are accessed via the Utilities menu (Figure 4.3.3-27), except for the following which are described in the XRP-II manuals:

- Unit of Measure Maintenance - maintains codes and descriptions for Baseline Manager's units of measure. These codes are used on bill of material data entry screens, which can access them via "zoom" command to facilitate data entry and promote data consistency. The screen is described in Section 3.2 of the Product Information Manual.

- Unit of Measure Conversion - maintains factors used for converting between units of measure. This standard XRP-II capability, not used by Baseline Manager, is retained for use with inventory, logistics, and maintenance management functions scheduled for delivery in Version 2.0. It is described in Section 3.3 of the Product Information Manual.

- Control Item Date Manager - supports a utility that is functionally equivalent to the Part Master Date Maintenance utility described in section 4 of the Product Information Manual. The utility cycles through product structure and product history files, determining the earliest and latest dates on which each control item is employed as a parent or component, and updates the active and inactive dates in the control item records accordingly. This utility should be run periodically (perhaps monthly), but need only be run if any product structures have been (or may have been) deleted, or if the bill of material screen "Replace a Component in All Bills" has been used. This utility is described in Section 7.2 of the Product Information Manual.

The sections that follow describe other Utility menu screens.

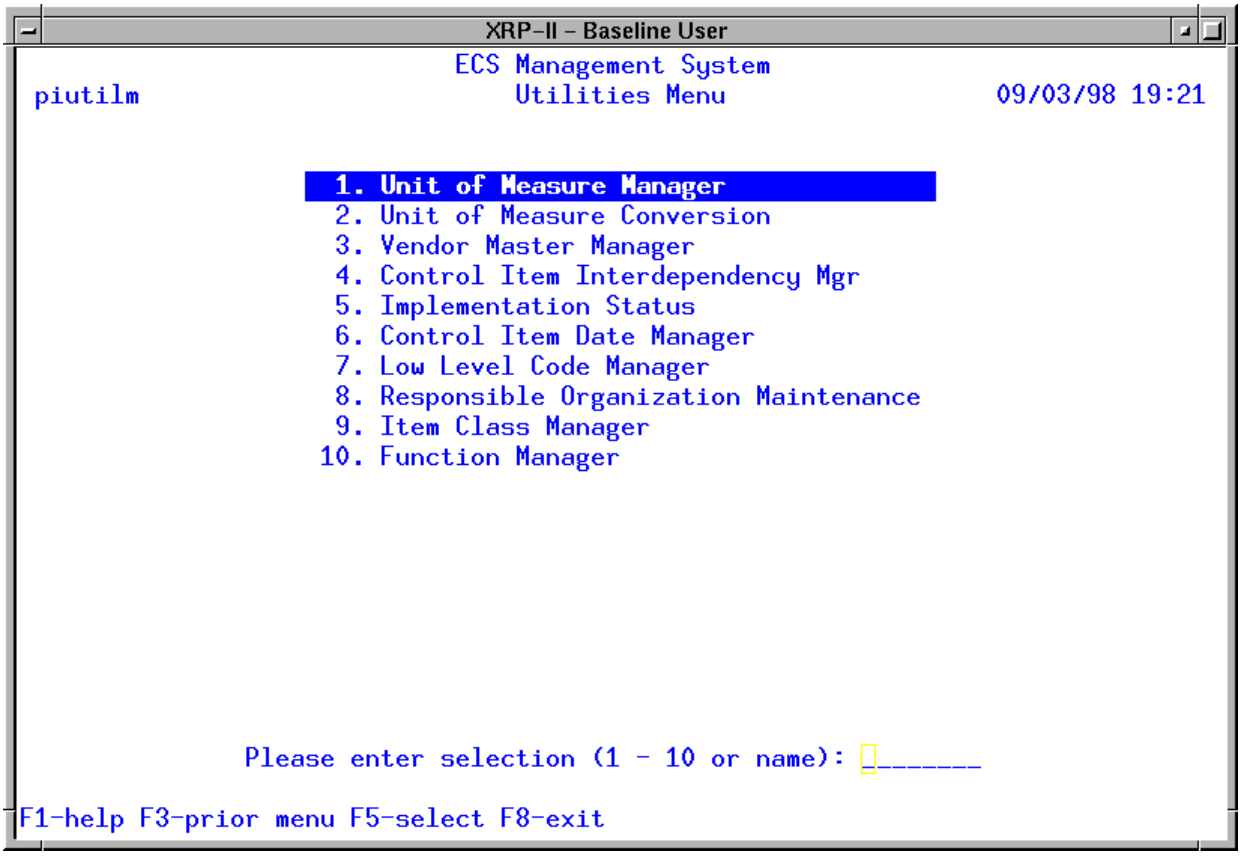


Figure 4.3.3-27. Utilities Menu CHUI

4.3.3.2.10.1 Vendor Master Manager Screen

This screen (Figure 4-3.3-28) maintains a list of companies in order to facilitate entering manufacturer and developer codes for control items and to promote data consistency across control item records. An operator updating the control item catalog can select manufacturer/developer codes from this list via the /**Z**oom command on control item master screens (see Section 4.3.3.1.3).

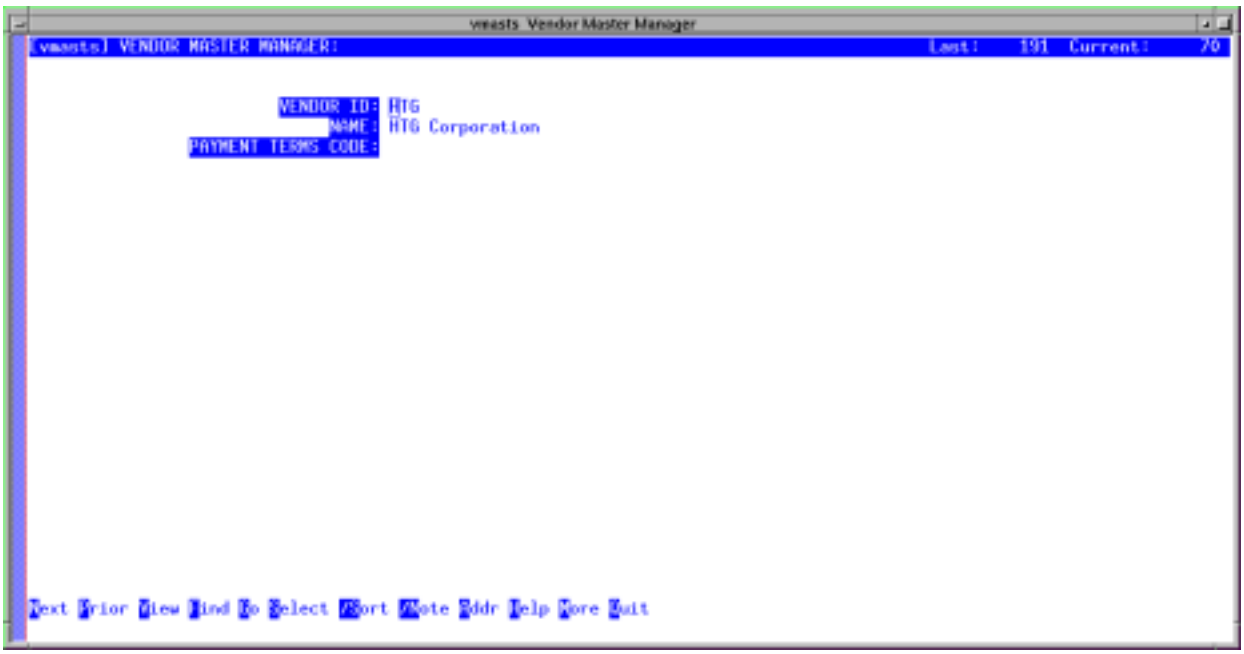


Figure 4.3.3-28. Vendor Master Manager CHUI

Use this screen to update the list of manufacturers or developers, giving each a unique identification number. Then use the bottom-line command **A**ddr to navigate to the Vendor Address Maintenance screen (Figure 4.3.3-29), which can record one or more addresses for the company. Fill out the address form, entering or letting XRP-II assign a new sequence number for each distinct address record being added. (XRP-II recognizes sequence number "0" as the company's default or principal address.) When done, exit the address screen, and either edit another vendor record or exit to the Utilities menu.

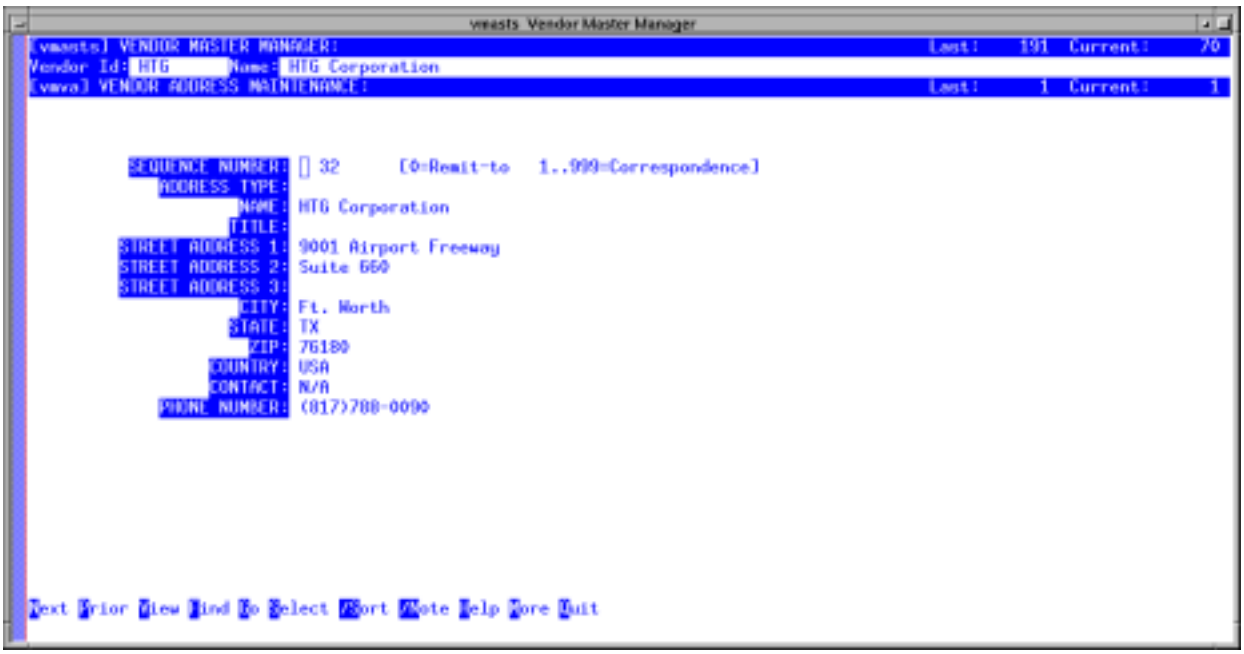


Figure 4.3.3-29. Vendor Address Maintenance CHUI

Tables 4-3.3-17 and 4.3.3-18 describe the fields for the Vendor Master Manager and Vendor Address Maintenance screens, respectively.

Table 4.3.3-17. Vendor Master Manager Field Descriptions

Field Name	Data Type	Size	Entry	Description
vendor id	string	6	required	Coded name of the company/organization that produced a control item
name	string	30	optional	Name by which a specific manufacturer or developer is known
payment terms code	string	2	optional	Code identifying the default payment terms for the vendor's invoices. The code must exist in the terms/conditions table, accessed via the Sales/Purchase Terms Maintenance data entry screen

Table 4.3.3-18. Vendor Address Maintenance Field Description

Field Name	Data Type	Size	Entry	Description
sequence number	numeric	3	mandatory	Number that uniquely identifies each address for a company. The value "0" is interpreted as the default.
address type	string	2	optional	Code that distinguishes among purposes for which the address is used
name	string	30	optional	Company name or individual's name that appears as the first line of the address
title	string	20	optional	Title of an individual
street address 1,2,3	string	30	optional	Address for the vendor
city	string	20	optional	Name of the city in which the vendor is located
state	string	2	optional	Abbreviation for the state in which the vendor is located
zip	string	10	optional	Postal code used by the vendor
country	string	16	required	Country in which the vendor is located
contact	string	30	optional	Name of a contact at the address
phone number	string	18	optional	Telephone number of the contact

4.3.3.2.10.2 Control Item Interdependency Maintenance Screen

This screen (Figure 4.3.3-30) maintains information about dependencies between any two control items. Any control item pair can have multiple dependency relationships; however, each of the control items must exist in the control item catalog. Dependency types are operator-specified and non-constrained. Baseline Manager does not maintain an on-line chronological history of dependencies or dependency changes for a control item, but records can be both downloaded and printed so they can be saved for historical purposes.

Use this screen to add, delete, modify, or browse dependency records. When a control item identifier is entered, XRP-II displays its description, version, name, and revision.

The table view is particularly well-suited for displaying lists of all dependencies associated with a given control item. Placing the cursor on either of the control items activates the bottom-line commands "**W**here" and "**B**om". Use **W**here to view product structure records in which the control item is a component in some other item's bill of material. Use **B**om to view product structure records in which the control item is a parent with a bill containing other control items.

This screen's fields are described in Table 4.3.3-19.

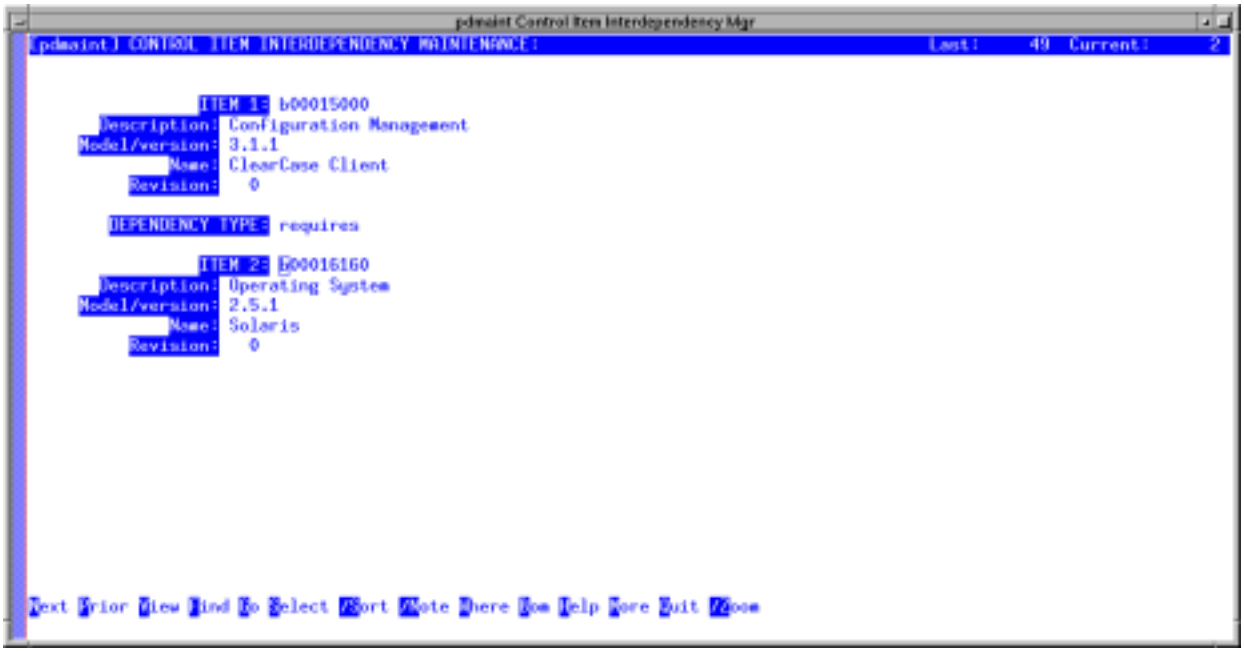


Figure 4.3.3-30. Control Item Interdependency Maintenance CHUI

Table 4.3.3-19. Control Item Interdependency Maintenance Field Descriptions

Field Name	Data Type	Size	Entry	Description
item one	string	20	required; zoom to select from control items list	Unique code for a version- or configuration-controlled item (normally, a control item id) that is the subject of the dependency relationship.
description	string	54	system supplied	Textual characterization of an entity
model/version	string	24	system supplied	Textual identifier for a level of functional capability for a control item
name	string	24	system supplied	Name by which a specific item, engineer, or vendor is known
revision	string	3	system supplied	Identifier for the currently-active revision level of the item's product structure
item two	string	20	required; zoom to select from control items list	Unique code for a version- or configuration-controlled item (normally, a control item id) that is the object of the dependency relationship
dependency type	string	20	required	Code or nomenclature describing the relationship between two control items

4.3.3.2.10.3 Implementation Status Screen

This screen maintains information about the deployment and implementation of control items system-wide. One record can be created for each control item for each site. The control item must

exist in the control item catalog, and the site must exist in the site list (see Section 4.3.3.2.11.8). Baseline Manager does not maintain a chronological history of implementation status data or implementation status data changes for a control item or site.

The following bottom-line command is unique to this screen:

- **.C**reate - creates an implementation status record for an operator-specified control item and site, and for each component in the control item's bill of materials. XRP-II does not create or modify a record if it finds that one already exists.

Use this screen to maintain and browse all control item implementation status records. Table view can display comprehensive lists of the sites to which a control item is (being) deployed and of the control items (being) deployed to a site. Whenever a set of implementation status records is needed for a new control item, type "**.C**" and answer XRP-II's prompts for data values to be used when creating the records.

Figure 4.3.3-31. Implementation Status CHUI

Note: The field "Implementation Status" has special significance in extracting resource profiles for resource planners. Control records are selected only if the items they describe are in the bill of materials of site operational baselines whose implementation status is "production".

Note: A control item must have at least one implementation status record in order to be listed properly in reports whose data are sorted by site.

Table 4.3.3-20. Implementation Status Field Descriptions

Field Name	Data Type	Size	Entry	Description
control item id	string	20	required; zoom to select from control items list	Unique code for a version- or configuration-controlled item
site	string	6	required; zoom to select from a list of sites	Mnemonic or short name for an ECS site
name	string	54	system supplied	Name by which a specific control item is known
description	string	54	system supplied	Textual characterization of an entity
model/version	string	24	system supplied	Textual identifier for a level of functional capability for a control item
installation date	date	N/A	optional	Designated date a control item is to be or was installed at a site
installation date	date	N/A	optional	Designated date a control item is to be or was installed at a site
installation date	date	N/A	optional	Designated date a control item is to be or was installed at a site
implementation status	string	20	optional;	Classification of a control item according to operational life cycle state (e.g., projected, installed, production, test, maintenance, inactive)

4.3.3.2.10.4 Low Level Code Screen

This utility is equivalent to the Low Level Code Maintenance utility described in Section 4 of the Product Information Manual, except options not yet described in the manual are now available for specifying a subset of records to process. It regenerates low level codes maintained in the control item master file by the system logic to improve the efficiency of certain XRP-II processing (see Section 4.2 of the Product Information Manual). Low level codes do not affect Baseline Manager functions; however, they appear in the headers of bill of material and where-used reports, where they identify the deepest level at which a subject control item is found in any recorded product structure tree.

This utility should be run periodically (perhaps monthly), but need only be run if any product structure records have been (or may have been) deleted. Its data entry screen (Figure 4.3.3-32) explains options operators are given.

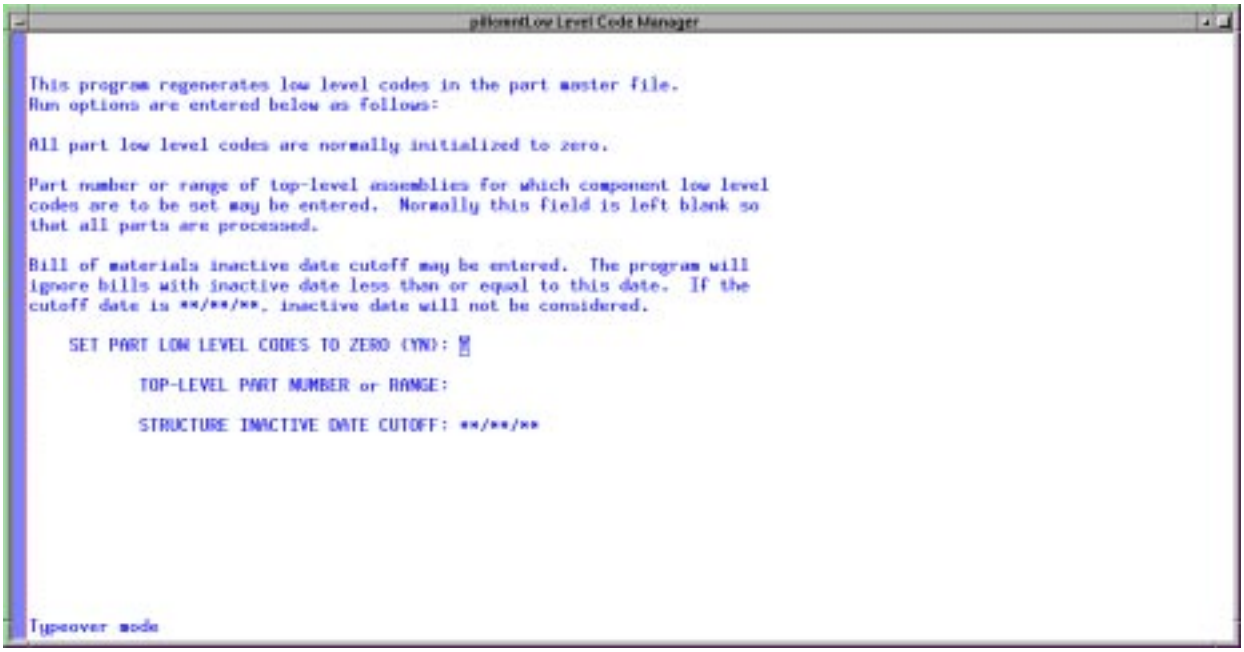


Figure 4.3.3-32. Low Level Code CHUI

4.3.3.2.10.5 Responsible Organization Maintenance Screen

This screen (Figure 4.3.3-33) maintains data about individuals in order to facilitate identifying points of contact for individual control items. An operator updating the control item catalog can select a code for an engineer from this list via the **/Z**oom command on control item master screens.

Use this screen to update the list of organizations responsible for control items. Table 4-3.3-21 describes its data entry fields.

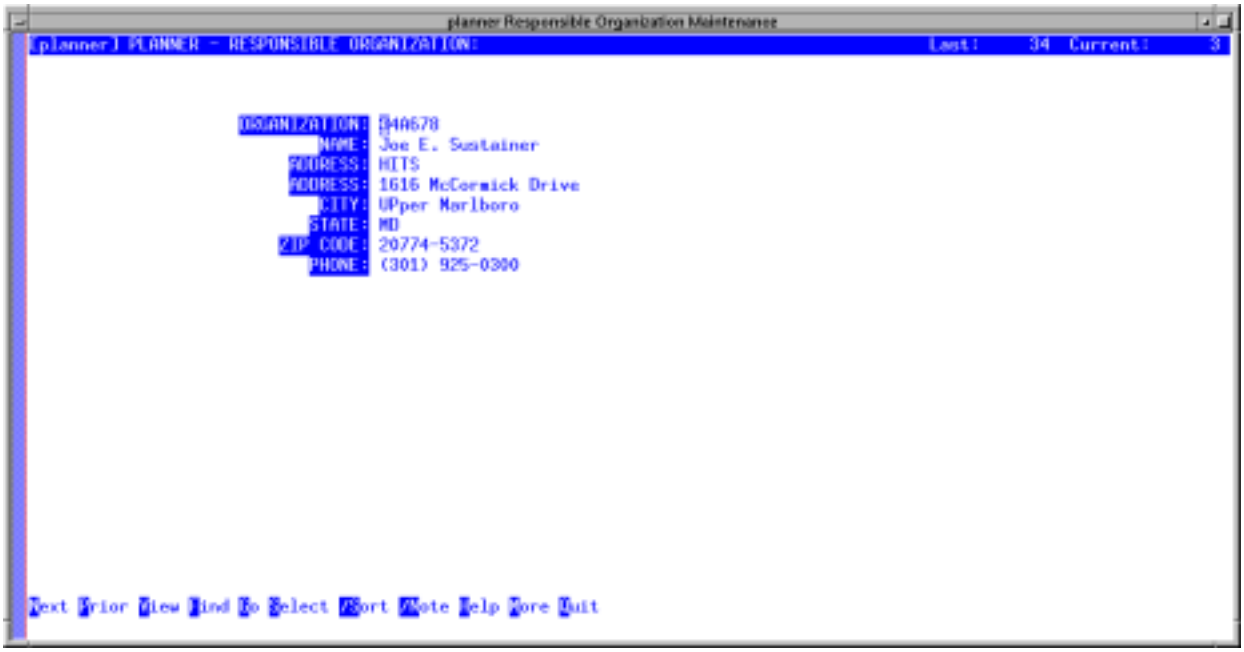


Figure 4.3.3-33. Responsible Organization CHUI

Table 4.3.3-21. Responsible Organization Field Descriptions

Field Name	Data Type	Size	Entry	Description
organization	string	6	required	Organization or task code of an engineer assigned responsibility for a control item
name	string	30	optional	Name of the responsible engineer
address	string	30	optional	Street address where the responsible engineer is located
city	string	20	optional	Name of the city in which the responsible engineer is located
state	string	2	optional	Name of the state in which the responsible engineer is located
zip	string	10	optional	Postal code where the responsible engineer is located
phone	string	18	optional	Phone number for the responsible engineer

4.3.3.2.10.6 Item Class Manager Screen

The Item Class Manager screen (Figure 4.3.3-34) maintains a list of names used to classify control items. Operators use the names for grouping and sorting records, while XRP-II uses them to

determine which records to display for the various Control Item Master and Query screens. The names can selected from a pick list on Control Item Master screens via a /**Z**oom command on Item Class fields.

Use the standard bottom-line commands to add, modify, delete, or browse item class records.

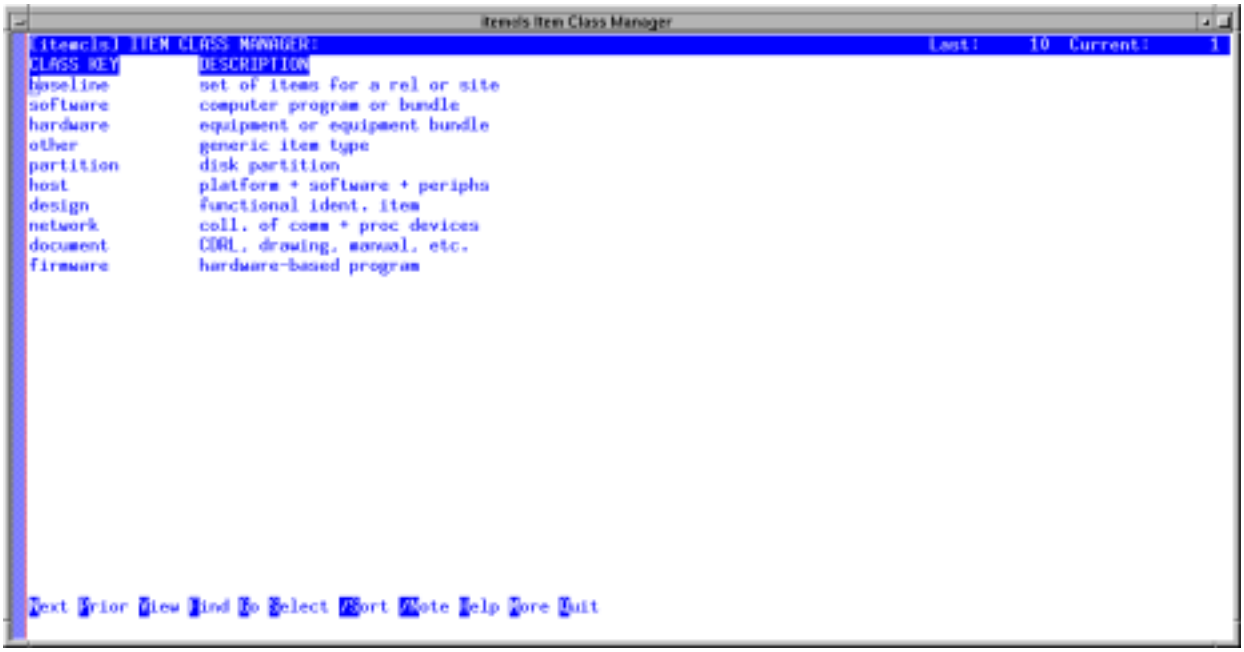


Figure 4.3.3-34. Item Class Manager CHUI

Table 4.3.3-22. Item Class Manager Field Descriptions

Field Name	Data Type	Size	Entry	Description
class key	string	16	required	Identifier for a type of control item (e.g., baseline, hardware, software, documents, etc.)
description	string	30	optional	Textual characterization of a control item class

4.3.3.2.10.7 Function Manager Screen

Operators use the Function Manager screen (Figure 4.3.3-35) to maintain a list of functions that control items perform. Operators use the names for grouping and sorting records, especially host records. The names are available to the Function field on Control Item Master screens to facilitate data entry and promote standardization.

Use the standard bottom-line commands to add, modify, delete, or browse function records.

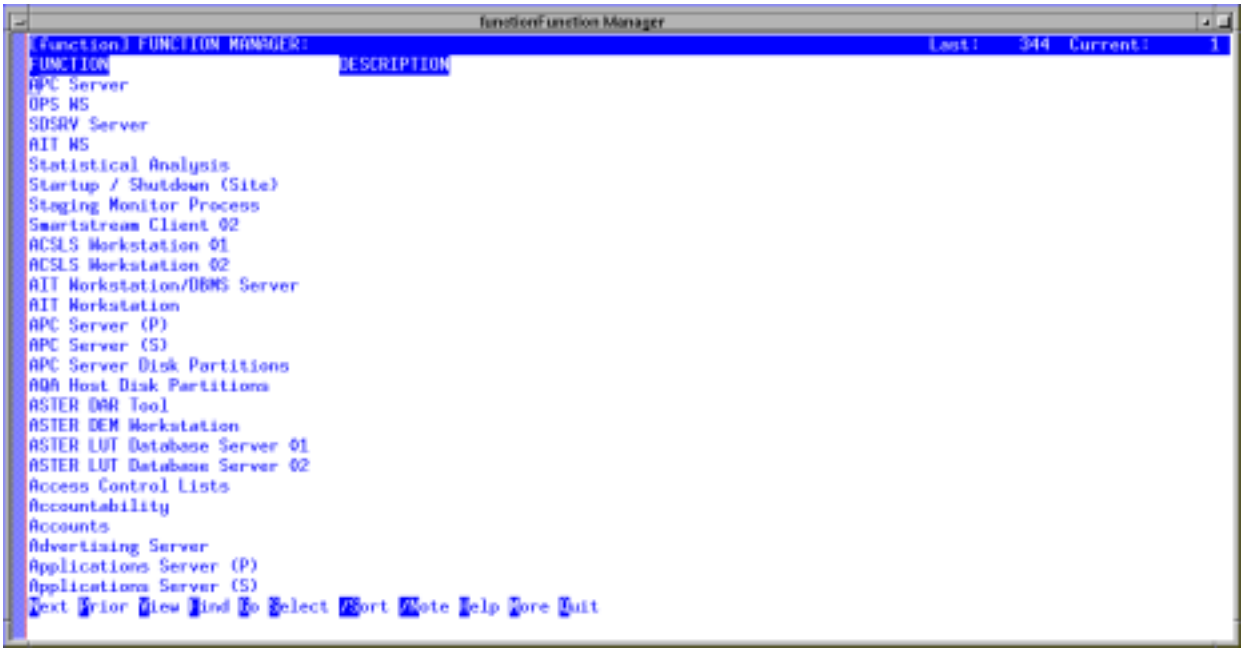


Figure 4.3.3-35. Function Manager CHUI

Table 4.3.3-23. Function Manager Field Descriptions

Field Name	Data Type	Size	Entry	Description
function	string	30	required	Name of the primary job of a control item
description	string	30	optional	Textual characterization of a control item class

4.3.3.2.11 Perform XRP-II Master File Maintenance

XRP-II groups together several programs that help standardize values for all of XRP-II and support inter-site exchange of Baseline Manager data. The screens supporting these programs are accessed via the System Utilities menu (Figure 4-3.3-36). The System Defaults Manager, Note Code Maintenance, Data Delete Utility, and [Shop] Calendar Utility, and [Shop] Calendar Report screens are fully described in the System Reference Manual. The remaining utilities are discussed in the sections that follow.

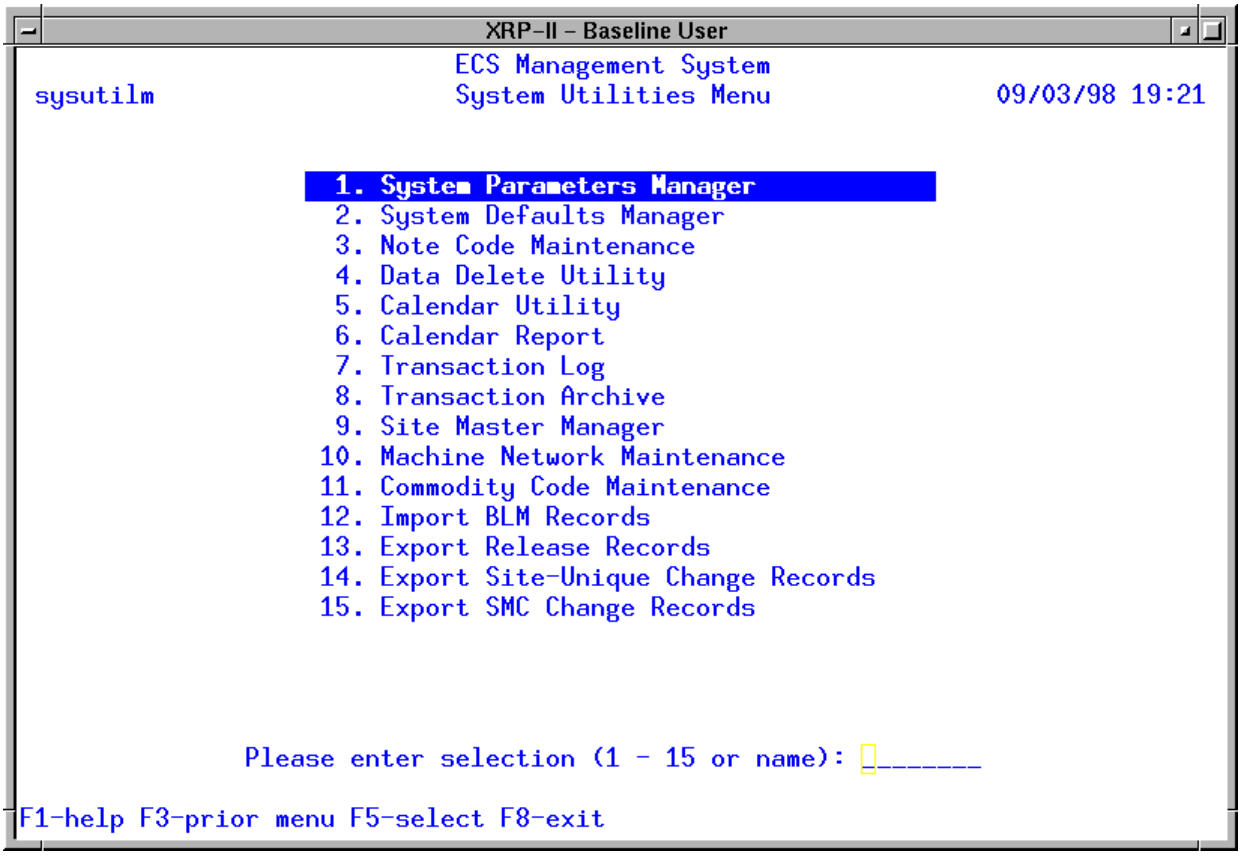


Figure 4.3.3-36. System Utilities Menu CHUI

4.3.3.2.11.1 System Parameters Manager Screen

The screen shown in Figure 4.3.3-37 maintains system-wide, XRP-II parameters and is principally used when first installing the system. Since Baseline Manager uses only a subset of the full XRP-II capabilities, this is a scaled down version of the screen described in Section 6 of the System Reference Manual. It contains only the fields needed to tailor the system to the site at which it operates.

The system parameter key is the key field of the system parameter file. The value "A" designates the active record, which is set when the database is created.

Note: An active record must always be present in order for XRP-II to function.

In the site identifier field, enter the code for the ECS site where the copy of XRP-II that the operator is using is installed. This data is used primarily in report headers and file names that XRP-II creates.

Note: The site identifier field must have an entry in order for Baseline Manager's data export processing to work properly.

In the last control item identifier field, enter a value XRP-II is to use in determining the next available identifier when an operator requests a default for a new item being added or inserted in the control item catalog. The value must end in a numeral, which XRP-II automatically increments. This identifier should always have the site's designated prefix: the first three characters of the site identifier.

In the starting RAM field, increase the value if XRP-II reports it cannot allocate sufficient memory when performing functions that process large bills of material.

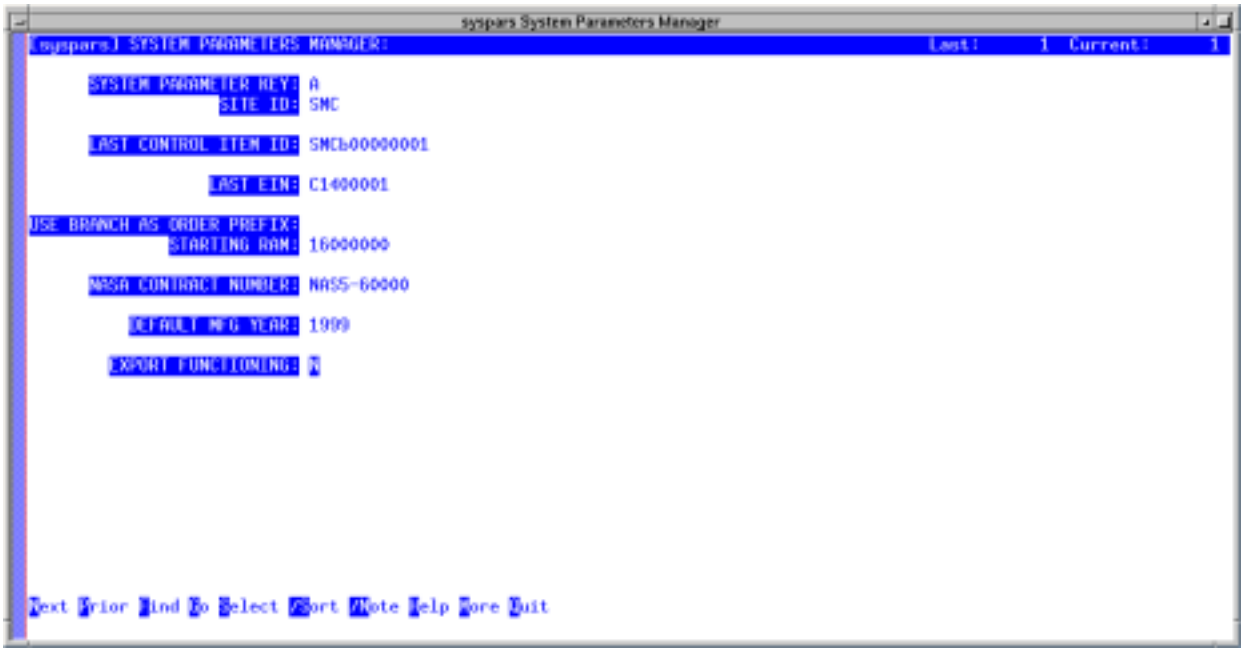


Figure 4.3.3-37. System Parameters Manager CHUI

Table 4.3.3-24. System Parameters Manager Field Descriptions

Field Name	Data Type	Size	Entry	Description
system parameter key	string	1	required	Code that designates the active record in XRP-II's system parameter table
site id	string	6	optional; zoom to select from a list of sites	Code that identifies an ECS site
last control item id	string	20	optional	Code used in determining the next sequentially-available identifier when assigning control item identifiers automatically
last ein	string	14	optional	Code used in determining the next sequentially-available identifier when assigning ein numbers automatically
use branch as order prefix	string	1	optional; Y	Code that, if "Y", causes all purchase orders, work orders, and salex orders to be prefixed with the site code of the user or, if null, the default site code
starting RAM	numeric	8	optional	Initial amount of memory XRP-II is to use
NASA contract number	string	60	optional	Code that is used by NASA to identify the ECS contract and is attached to all property records
default mfg year	numeric	4	optional	Year used as default to identify when an item was built
export functioning	string	1	system supplied (but must be set to "N" manually when a data export attempt aborts); Y,N	Code that indicates if an XRP-II data "export" function is in progress; used to prevent multiple export routines being run concurrently

4.3.3.2.11.2 Transaction Log Screen

This screen allows operators to browse, and maintain if necessary, the database transaction log file. Values for all fields on this screen are system-supplied. When a database record is modified via a data entry screen, the system provides the next available transaction number and records information about what field was modified when and by whom.

The transaction log facilitates synchronizing database changes among sites. For example, the Export Site-Unique Changes utility (Section 4.3.3.2.11.9) analyzes the log's entries to identify database records that have been modified, setting each Transferred field so it bypasses the entry next time the utility is run.

The screen displays numbers to identify XRP-II database fields because field names are not stored in the database. Field names that correspond to the numbers can be found in file $MSPATH/mms/def/file.h, where MSPATH is an environment variable identifying XRP-II's installation directory.

Similarly, the screen uses numbers to identify locations of altered database records. The current contents of a referenced record can be displayed as follows, but only if the record at that location was neither deleted nor replaced by another since the log entry was made. At a Unix command line prompt, type:

SYS920	Invokes UNIFY's database test driver
setloc <table> <location>	Displays a record's data
end	Exits program SYS920

Note: Use Transaction Archive (Section 4.3.3.2.11.3) to remove obsolete transaction records. Transaction Archive preserves records that export utilities still need, and it saves a historical copy of the records it deletes.

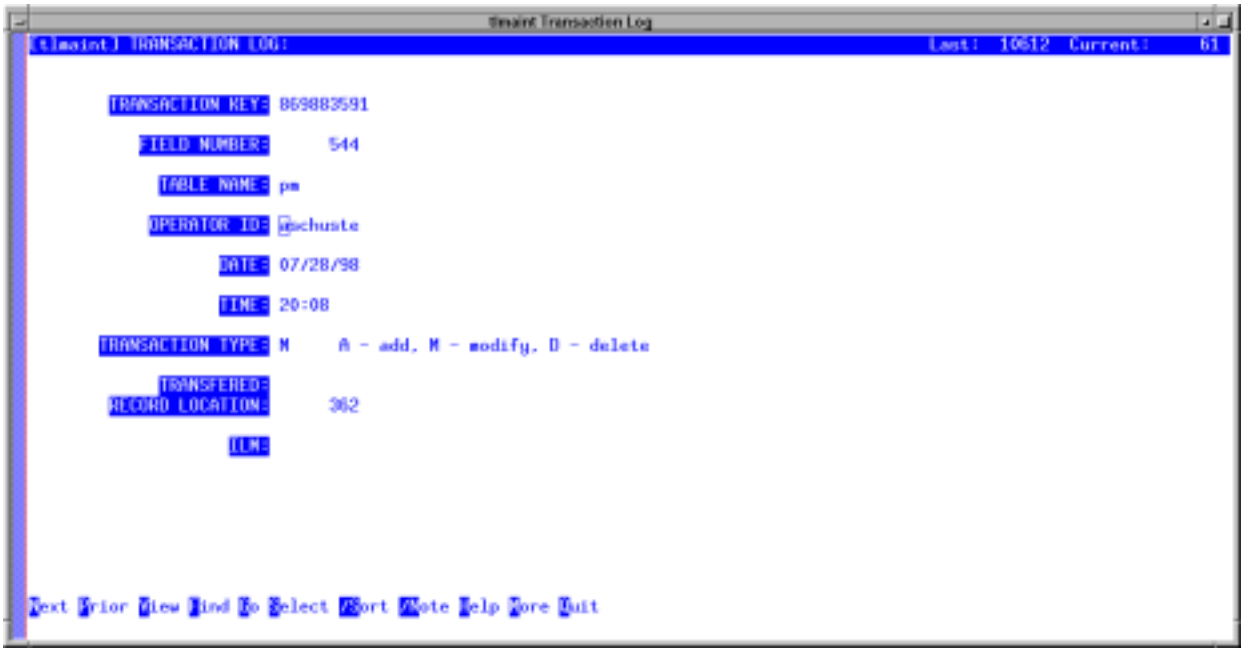


Figure 4.3.3-38. Transaction Log CHUI

Table 4.3.3-25. Transaction Log Field Descriptions

Field Name	Data Type	Size	Entry	Description
transaction key	numeric	5	system supplied	Number that uniquely identifies each update transaction
field number	numeric	8	system supplied	Numerical identifier for the XRP-II field affected by the transaction.
table name	string	10	system supplied	Name of the XRP-II table affected by the update transaction
operator id	string	8	system supplied	Userid of the operator making the update transaction
date	date	N/A	system supplied	Date of the update transaction
time	time	N/A	system supplied	Time of the update transaction
transaction type	string	1	system supplied	Code for the type of transaction: A (add), M (modify), or D (delete)
transferred	string	1	system supplied	Code that indicates that the transaction has been analyzed by an export utility. "T" means the corresponding control item record has been exported, while "X" means it did not need to be exported.
record location	numeric	8	system supplied	Identifier for the transaction record's location within XRP-II
ilm	string	1	system supplied; Y, <NULL>	Code that distinguishes between ILM- and BLM-related log entries; "Y" signifies ILM

4.3.3.2.11.3 Transaction Archive Screen

Control item data update transactions should periodically be deleted from the database after changed records have been exported. This makes room to log new transactions.

The Transaction Archive screen copies to a named file the records of transactions that occurred on or prior to a specified cutoff date. It then deletes the records from the database.

Specify the date of the last transaction to archive and the name of a file in which to store the data.

Note: XRP-II will only archive a transaction log record if its Transferred field contains the value "T" or "X". The presence of a "T" or "X" means the record has been analyzed by a program for exporting records about control item changes to other sites (see Sections 4.3.3.2.11.8 and 4.3.3.2.11.9). Deleting unanalyzed transaction log records can cause incomplete data exchanges.

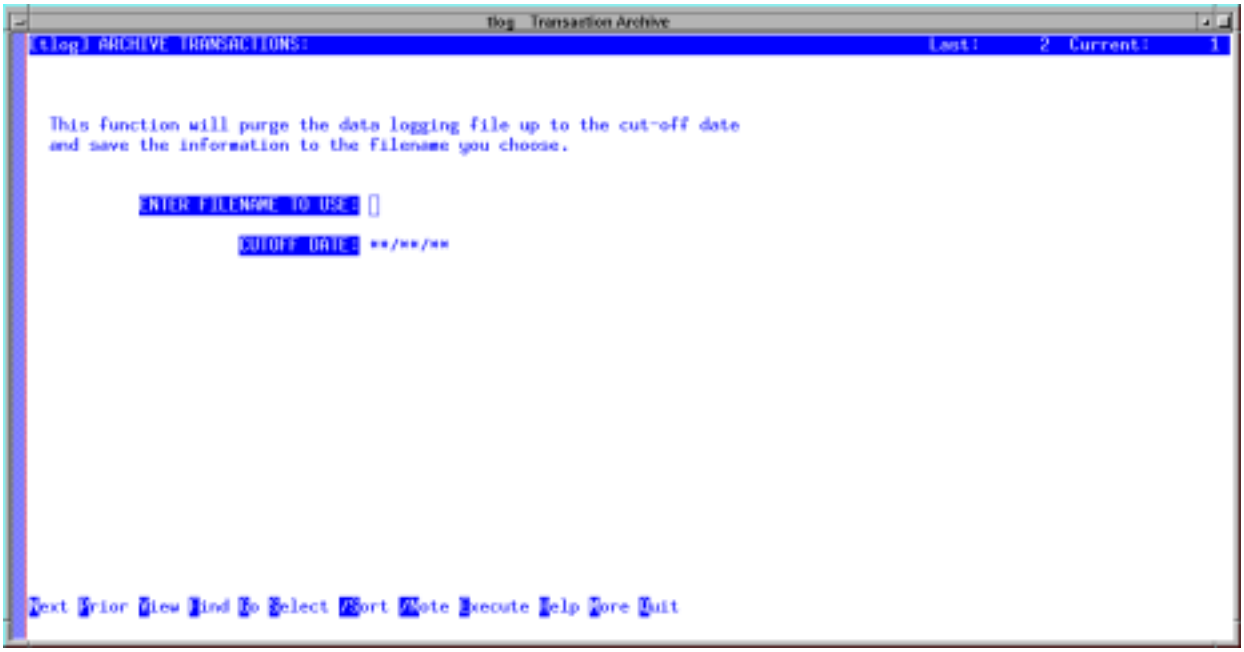


Figure 4.3.3-39. Transaction Archive CHUI

Table 4.3.3-26. Transaction Archive CHUI Field Descriptions

Field Name	Data Type	Size	Entry	Description
file name	string	8	required	Name of the file in which to store transaction records being archived
cutoff date	date	N/A	required	Date of the most recent transaction to be archived

4.3.3.2.11.4 Site Master Manager Screen

The Site Master Manager screen (Figure 4.3.3-40) lets operators maintain an index of ECS-related sites. This index, which identifies details about each site, also serves as a pick list to facilitate entering control item implementation status data and report generation parameters on other screens. This screen is identical to the Branch Master Maintenance screen described in Section 6.8 of the System Reference Manual, except that the term “site” is used in lieu of “branch” and the tax code field has been deleted. Baseline Manager does not implement the organizational branch processing described in the System Reference Manual. Rather, it uses site identifiers during data export operations to determine if a control item identifier or engineering change number is site-unique.

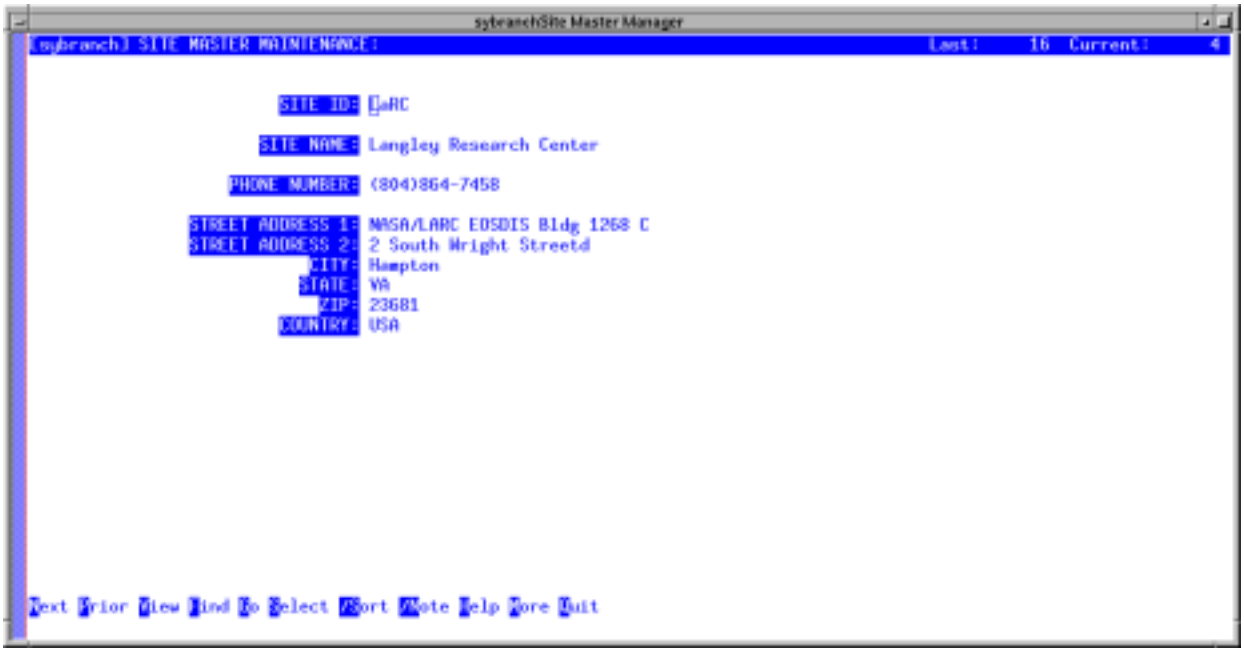


Figure 4.3.3-40. Site Master Manager CHUI

Table 4.3.3-27 describes the “site” fields that were tailored for ECS.

Table 4.3.3-27. Site Master Manager Field Descriptions

Field Name	Data Type	Size	Entry	Description
site id	string	6	required	Code that uniquely identifies an ECS site.
site name	string	46	optional	Full name of an ECS site.
phone number	string	8	optional	Phone number of a point of contact at the site
street address	string	30	optional	Address for the site
city	string	20	optional	Name of the city in which the site is located
state	string	2	optional	Abbreviation for the state in which the site is located
zip	string	10	optional	Postal code for the site
country	string	16	optional	Code for the country in which the site is located

4.3.3.2.11.5 Machine Network Maintenance Screen

Operators use the Machine Network Maintenance screen (Figure 4.3.3-41) to keep a list of MSS CM Server hosts to which Baseline Manager records are usually shipped. The list is used by the three data entry screens that export Baseline Manager data (see Sections 4.3.3.2.11.8 - 10). The list is not required; it exists primarily to support **/Z**oom commands that help operators specify a target host(s) to which exported Baseline Manager records are to be sent.

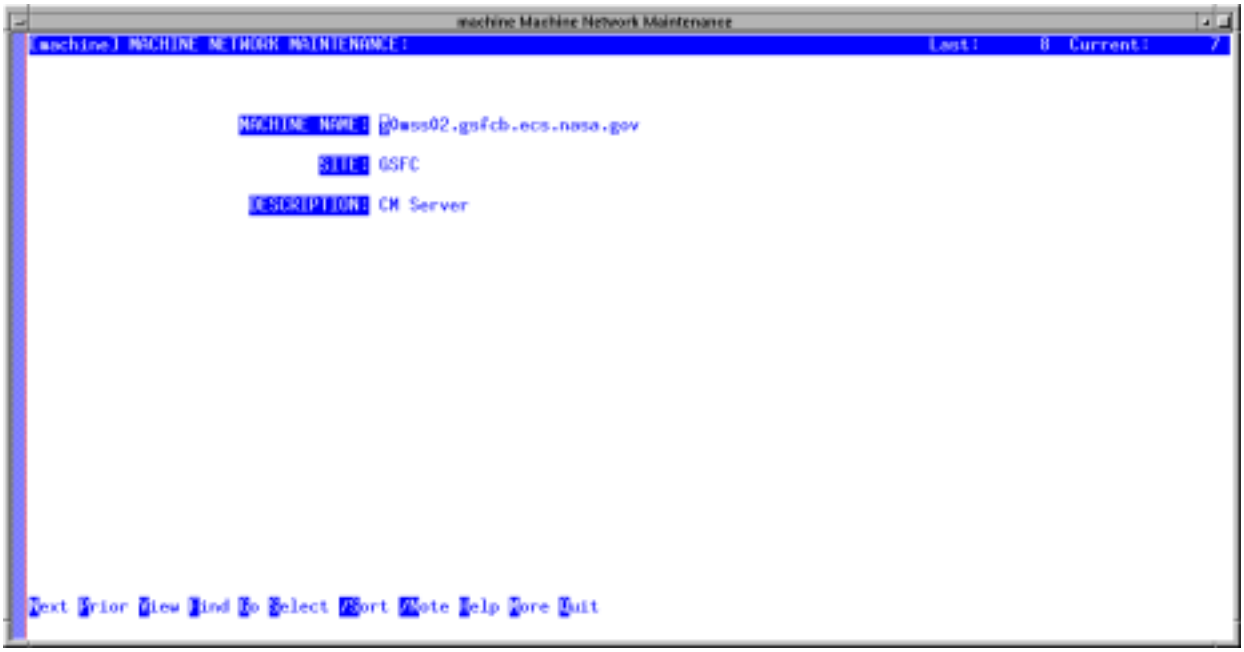


Figure 4.3.3-41. Machine Network Maintenance CHUI

Table 4.3.3-28. Machine Network Maintenance Field Descriptions

Field Name	Data Type	Size	Entry	Description
machine name	string	32	required	Full, network-addressable name of a host
site	string	6	optional; zoom to select from a list of sites	Code that uniquely identifies an ECS site
description	string	30	optional	Textual characterization of a host machine

4.3.3.2.11.6 Commodity Code Maintenance Screen

The Commodity Code Maintenance screen (Figure 4.3.3-42) maintains standard codes and names that are used to classify a control item according to how it was procured or obtained for a project. This data, used as a pick list by control item update screens, promotes data standardization and facilitates recording control item data.

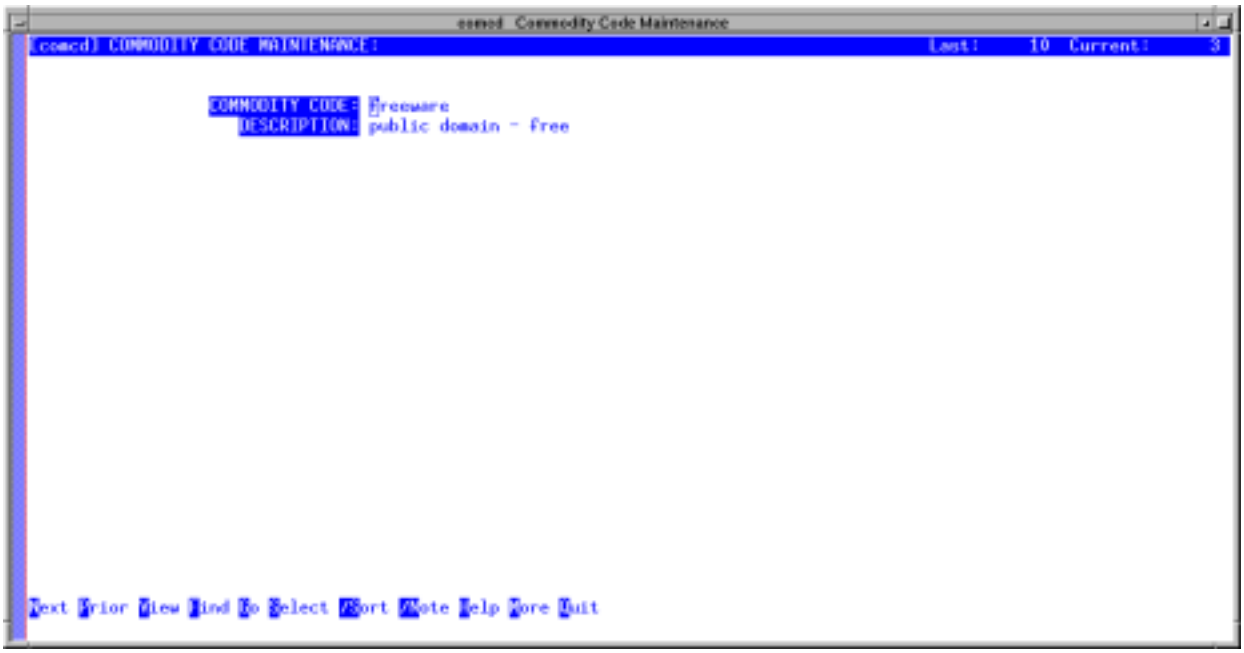


Figure 4.3.3-42. Commodity Code Maintenance CHUI

Use this screen to update the list of commodity codes to use for control items. Table 4.3.3-29 describes its data entry fields.

Table 4.3.3-29. Commodity Code Maintenance Field Descriptions

Field Name	Data Type	Size	Entry	Description
commodity code	string	8	required	Classification for how a control item was produced or obtained (e.g., COTS, heritage, GFE, custom, mod-COTS, shareware, freeware, etc.)
description	string	20	optional	Full name for the commodity type

4.3.3.2.11.7 Import BLM Records Screen

The screen shown in Figure 4.3.3-43 initiates loading of XRP-II data from tar files created by Baseline Manager's data export utilities. Entering "**Y**" at the prompt causes XRP-II to process all files in the directory named in the IMPORTPATH environment variable. Import tar files -- whose names indicate the date and time they were made -- are processed in chronological order as determined from their file names. Upon completion, the original files are moved to an archive directory named in the IMPORTARC environment variable.

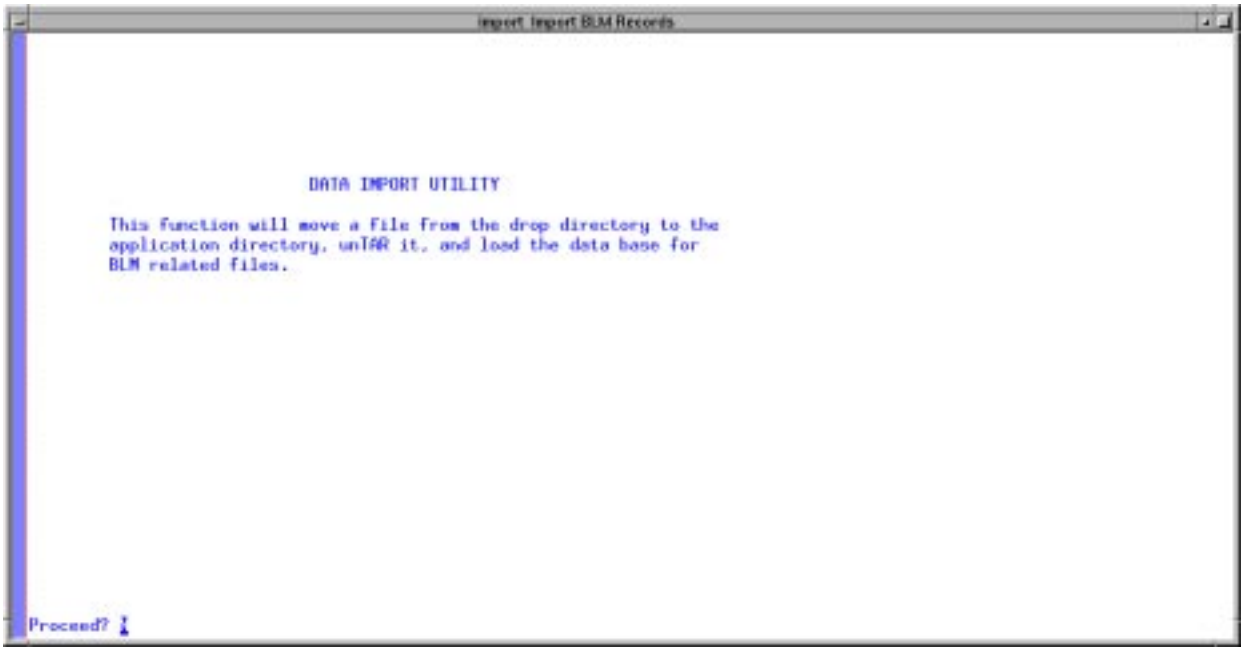


Figure 4.3.3-43. Import BLM Records CHUI

4.3.3.2.11.8 Export Release Records Screen

Operators use this screen to produce files for distribution that contain records associated with the release of a specified baseline, configuration item, or other control item. Via a SEND NOW feature, operators can opt to have XRP-II ftp the files to as many as six remote hosts.

The process entails extracting data about a specified item and all other items in its bill of materials as of a given date. XRP-II copies appropriate records from control item master, product structure, engineering change, interdependency, and implementation status tables and stores them in a file whose format is compatible with the Import Data utility. One tar file is created for each destination and is given a name that identifies the machine to which the file is to be sent, the origination site, the file's type, and the identifier and effective date of the control item whose records are being released. If the SEND NOW feature is used, XRP-II transfers the files via ftp then moves them

from the export directory to an archive directory[1]. Otherwise, the files remain in the export directory to be transferred manually.

Note: Export files that are transferred manually to a destination machine must also be moved manually to the archive directory.

Enter the identifier of one or more control items, and specify the name of one or more hosts to receive the data. (Include domain names, or use IP addresses. Machine names can be selected from a managed list by using the /**Z**oom command.) Next, enter an effective date to use for the item's bill, and indicate whether or not XRP-II is to ftp the files now. Begin data extraction by using the **E**xecute command and, if prompted, provide a login account and a password for the ftp. As processing progresses, XRP-II will display informational messages; including some that contain the names of the tar files that are created. Messages that terminate with the symbol ">" require an operator response. Hit any key and processing will continue. XRP-II returns to the System Utilities menu when done.

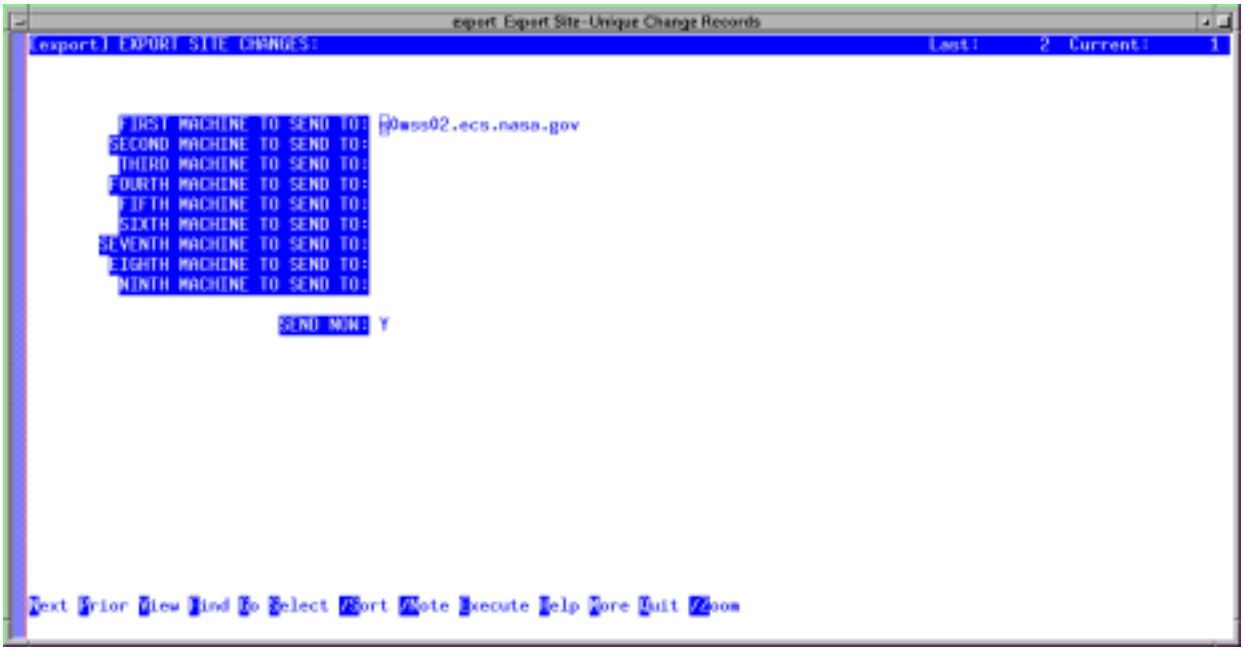


Figure 4.3.3-44. Export Release Records CHUI

[1] The export directory and its corresponding export archive directory are configuration parameters named via program environment variables. See Section 4.3.3.2.3.

Table 4.3.3-30. Export Release Records Field Descriptions

Field Name	Data Type	Size	Entry	Description
control item id	string	20	required; zoom to select from a control item list	Unique code for a version- or configuration-controlled item
machine to send to	string	40	required; zoom to select from a list of machines	Full, network-addressable name of a host
date of configuration	date	N/A	required	"As of" date used in selecting records from the configuration history of a control item
send now	string	1	Y or N	Code that indicates whether or not to ship files immediately

4.3.3.2.11.9 Export Site-Unique Change Records Screen

This screen is used to extract, and distribute to another site such as the SMC, copies of records about site-unique control items that have changed since the last time this function was used. XRP-II can ftp the records to up to six remote hosts specified by the operator.

XRP-II analyzes the transaction log to determine what data changed and which site-unique control items were affected.[2] Control item master, product structure, engineering change, interdependency, and implementation status records for these control items are copied and stored in files compatible with XRP-II's Import Data utility. These files are, in turn, converted to tar format, one per destination host the operator specifies. Each tar file is given a name that identifies the date and time the export was done, the origination site, the file's type, and the machine to which the file is to be sent. If the SEND NOW feature is used, XRP-II transfers the files via ftp then moves them from the export directory to an archive directory.[3] Otherwise, the files remain in the export directory to be transferred manually.

Note: Export files that are transferred manually to a destination machine must also be moved manually to the archive directory.

---

[2] Site-unique control items have identifiers containing the local site's designated prefix. Baseline Manager requires that the site prefix be the first three characters of the identifier for the site specified in the system parameters table. See Section 4.3.3.1.13.1.

[3] The export directory and its corresponding export archive directory are configuration parameters named via program environment variables. See Section 4.3.3.2.3.

Enter the name of one or more machines to receive the data (using their domain names or IP addresses), and choose whether or not to ftp the data files immediately after they are created. Names can be selected from a managed list by using XRP-II's /**Z**oom command. Use **E**xecute to begin data extraction and, if prompted, provide a login account and a password for the ftp. As processing progresses, XRP-II will display informational messages, including some that contain the names of the tar files that are created. Messages that terminate with the symbol ">" require an operator response. Hit any key and processing will continue. XRP-II returns to the System Utilities menu when done.

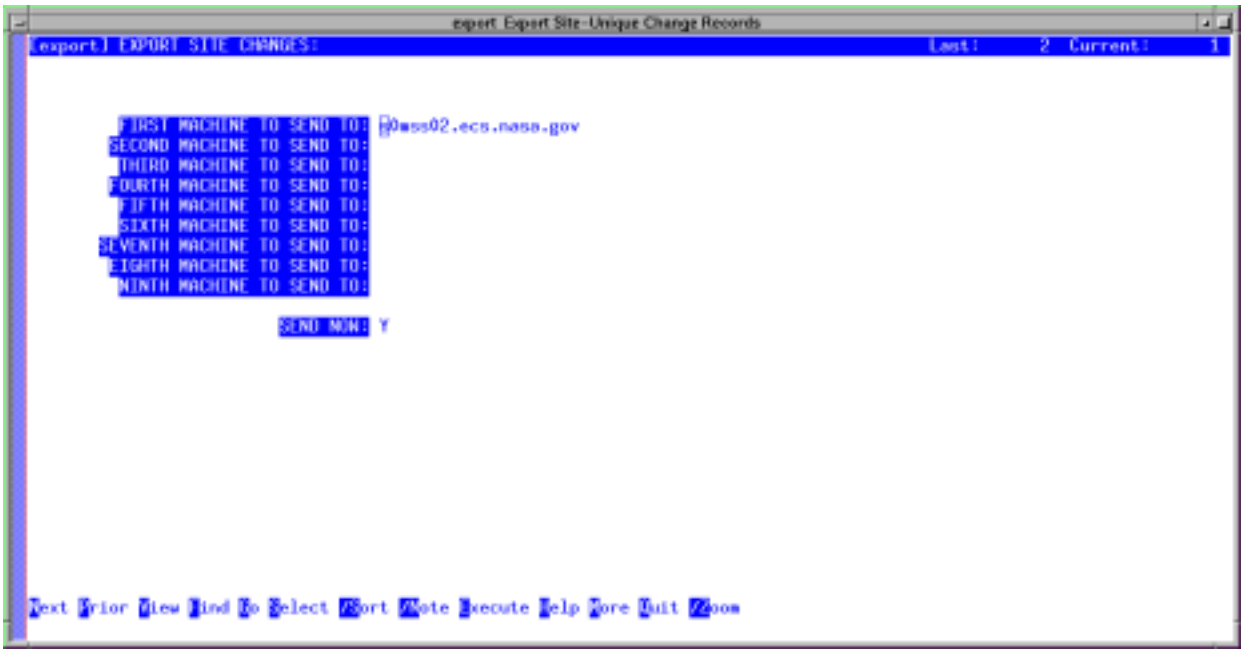


Figure 4.3.3-45. Export Site-Unique Change Records CHUI

Table 4.3.3-31. Export Site-Unique Change Records Field Descriptions

Field Name	Data Type	Size	Entry	Description
machine to send to	string	40	required; zoom to select from a list of machines	Full domain name or network address of the host to receive the exported data file(s)
send now	string	1	Y or N	Code that indicates whether or not to ship files immediately

4.3.3.2.11.10 Export SMC Change Records Screen

This screen extracts, and distributes to remote sites, copies of records about centrally managed control items[4] changed since the last time this function was used. XRP-II can ftp the files to up to six remote hosts specified by the operator.

XRP-II analyzes the transaction log to determine what data changed and which centrally managed control items were affected. Control item master, product structure, engineering change, interdependency, and implementation status records for these control items are copied and stored in files compatible with XRP-II's Import Data utility, These files are, in turn, converted to tar format, one per destination host the operator specifies. Each tar file is given a name that identifies the date and time the export was done, the origination site, the file's type, and the machine to which the file is to be sent. If the SEND NOW feature is used, XRP-II attempts to transfer the files via ftp then moves them from the export directory to an archive directory.[5] Otherwise, the files remain in the export directory to be transferred manually.

Note: Export files that are transferred manually to a destination machine must also be moved manually to the archive directory.

Enter the name of one or more hosts to receive the data (using either domain names or IP addresses), and choose whether or not to ftp the data files immediately after they are created. Names can be selected from a list of servers (see Section 4.3.3.2.11.5) by using the **/Z**oom command. Use **E**xecute to begin data extraction and, if prompted, provide a login account and a password for the ftp. As processing progresses, XRP-II will display informational messages; including some that contain the names of the tar files that are created. Messages that terminate with the symbol ">" require an operator response. Hit any key and processing will continue. XRP-II returns to the System Utilities menu when done.

---

[4] Centrally managed control items have identifiers whose 3-character prefix is other than the first three characters of any site's code.

[5] The export directory and its corresponding export archive directory are configuration parameters named via program environment variables. See Section 4.3.3.2.3.

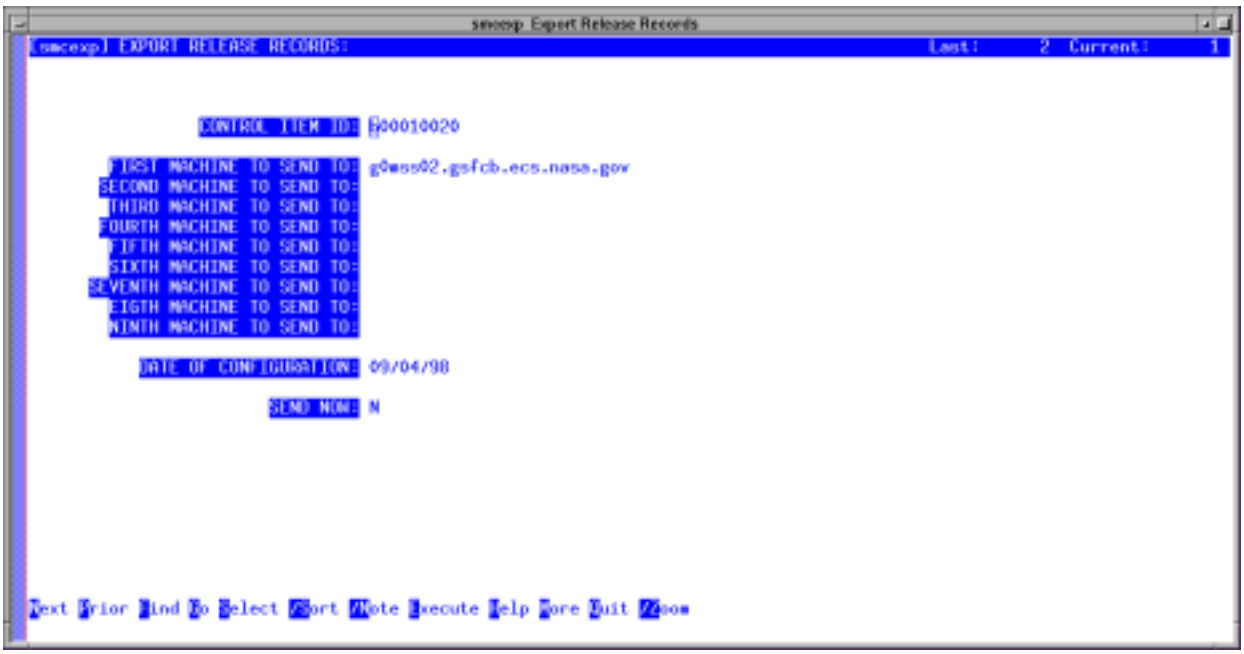


Figure 4.3.3-46. Export SMC Change Records CHUI

Table 4.3.3-32. Export SMC Change Records Field Descriptions

Field Name	Data Type	Size	Entry	Description
machine to send to	string	40	required; zoom to select from a list of machines	Full domain name or network address of the host to receive the exported data file(s)
send now	string	1	Y or N	Code that indicates whether or not to ship files immediately

4.3.3.2.12 Perform XRP-II System and Database Administration

XRP-II provides several programs for controlling user access, maintaining the database, and customizing the user interface. Many of the programs are supported by data entry screens accessed via XRP-II's System Tools menu [1] These are described in Sections 4.3.3.2.12.1-4.3.3.2.12.9. The rest are supported by UNIFY data entry screens or are run from the command line. These are described in Sections 4.3.3.2.12.10-4.3.3.2.12.15. Table 4.3.3-33 is an index to the functions addressed in this section.

Table 4.3.3-33. Index of System/Database Administration Functions

Category	Function	Program	Section
user access control	userid maintenance	User Manager	4.3.3.2.12.2
	groups definition	Groups Manager	4.3.3.2.12.3
	screen privileges maintenance	Screen Permission Control	4.3.3.2.12.4
printers management	printers definition	Printers Management	4.3.3.2.12.6
database administration	database dump	Data Dump Utility	4.3.3.2.12.7
	database load	Data Load Utility	4.3.3.2.12.8
	Access ACCELL/UNIFY	ACCELL	4.3.3.2.12.9
	b-tree maintenance	Add, Drop B-Tree Indexes	4.3.3.2.12.10
	database backups	Write Data Base Backup	4.3.3.2.12.11
	database restore	Read Data Base Backup	4.3.3.2.12.12
	UNIFY transaction log control	Transaction Logging Status	4.3.3.2.12.13
user interface customization	data entry screen maintenance	Screen Manager	4.3.3.2.12.1
		Screen Reset (dvset)	4.3.3.2.12.14
	menu maintenance	Menu Manager	4.3.3.2.12.5
	report maintenance	Report Reset (rpset)	4.3.3.2.12.15

4.3.3.2.12.1 Screen Manager Screen

Operators use the Screen Manager screen (Figure 4.3.3-47) to define XRP-II's menus and Datalook data entry screens. Once defined, any screen or menu can be positioned in XRP-II's menu hierarchy via the Menu Manager (Section 4.3.3.2.12.5), and be made accessible for use via Screen Permission Control (Section 4.3.3.2.12.4). Appendix D of the System Reference Manual and the first six chapters of the Datalook/Datarite Reference Manual provide pertinent insights into Datalook screens and how they relate to the XRP-II menu handler.

[1] The System Tools menu is new with version 3.0.1 of XRP-II. It moves control of menus, screens, and user access from ASCII files to the database and brings to the menu handler functions previously available only at the command line. HTG Corporation manuals do not yet reflect the change.

Every XRP-II menu and screen has a name or code by which it is referenced. By convention, names are lower case, and the first two characters usually correspond to the XRP-II module the entity supports (e.g., "pi" for Product Information). XRP-II screens and menus are supported by executables that perform data retrieval and manipulation. By convention, executables are named in uppercase. Every data entry screen, including those used for producing reports, is supported by a specification file that defines the screen configuration.

Use the standard bottom-line commands to add, delete, modify, or browse screen and menu records. Table 4.3.3-34 describes the Screen Manager fields. The special command, **E**ditscreen, is for creating or changing specifications for a screen.[2] **E**ditscreen opens a Vi session for a specification file named "<screen code>.dv" located in the $MSPATH/mms/local directory. When Vi is exited, **E**ditscreen automatically compiles the file and resets all XRP-II screens.

Note: Do not alter any of the standard screen script files in directory $MSPATH/mms/dvspec.

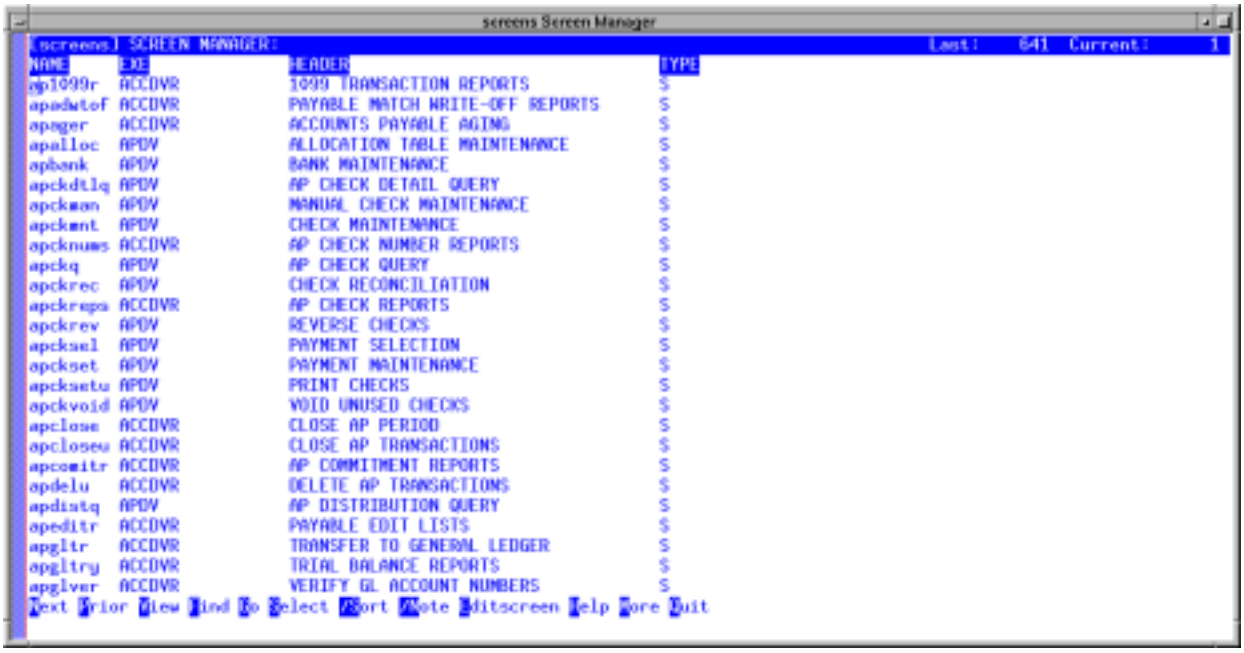


Figure 4.3.3-47. Screen Manager CHUI

[2] See Chapters 1-6 of the Datalook/Datarite Reference Manual for details about screen specifications.

Table 4.3.3-34. Screen Manager Field Descriptions

Field Name	Data Type	Size	Entry	Description
screen or menu code	string	8	required	Identifier (short name) that XRP-II programs use in referencing an XRP-II screen or menu (e.g., pici).
executable	string	16	optional	Name of the executable driving a data entry screen
header	string	36	optional	Name of the heading or title for the data entry screen or menu
type	string	1	optional; S, M, E	Code for distinguishing between records identifying screens (S), menus (M), and executables (E)

4.3.3.2.12.2 User Manager Screen

Operators use the User Manager screen (Figure 4.3.3-48) to register the Unix userids of individuals authorized to run XRP-II. Individuals are assigned a group of menus and screens that may be accessed and a specific entry menu. As part of logon processing, XRP-II's menu handler obtains an individual's Unix userid from the system and verifies it against those that have been registered.[3]

Use this screen to add, delete, modify or browse XRP-II user records.

Note: Consistent with the single login philosophy of ECS, XRP-II prompts the user for neither a userid nor a password when the ECS standard Baseline Manager startup script " pcs" is used. The script passes XRP-II the operator's userid as an argument based on results of a "whoami" command and access is controlled via screen permissions rather than passwords.

[3] Data access for operators running XRP-II executables from the command line is governed by Unix file permissions rather than the menu handler.

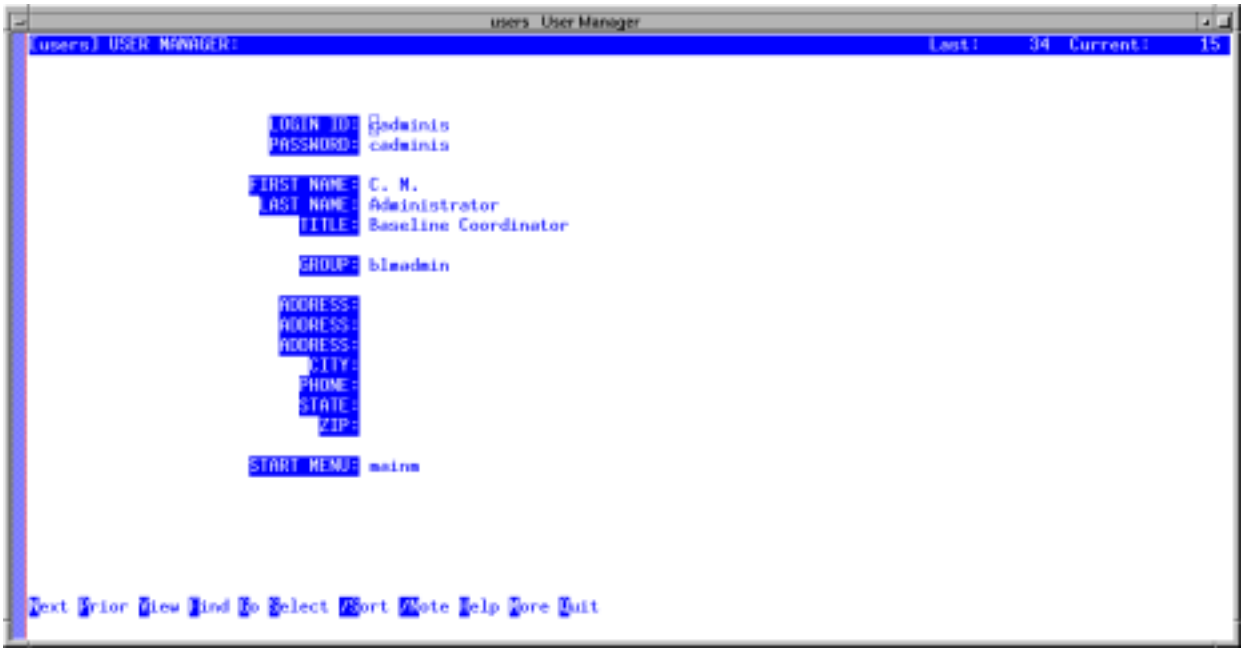


Figure 4.3.3-48. User Manager CHUI

Table 4.3.3-35. User Manager Field Descriptions

Field Name	Data Type	Size	Entry	Description
login id	string	32	required	Full, network-addressable name of a host
password	string	6	optional; zoom to select from a list of sites	Code that uniquely identifies an ECS site
first name	string	30	optional	First name of the user
last name	string	30	optional	Surname of the user
title	string	20	optional	Name of the user's position or job
group	string	8	optional; zoom to select from a list of groups	Name for a collection of XRP-II data entry screens and menus. These are the default screens and menus the user can access. Deviations can be specified via Screen Permission Control.
address	string	30	optional	Street address where the responsible engineer is located
city	string	20	optional	Name of the city in which the responsible engineer is located
phone	string	18	optional	Phone number for the responsible engineer
state	string	2	optional	Name of the state in which the responsible engineer is located
zip	string	10	optional	Postal code where the responsible engineer is located
start menu	string	8	optional; zoom to select from a list	Name or code of the menu initially presented to the user at login

4.3.3.2.12.3 Groups Manager Screen

Operators use the Groups Manager screen (Figure 4.3.3-49) to maintain a list of XRP-II user group names. Groups are collections of userids having common access privileges. Access to XRP-II menus and screens can be assigned by group as well as by user. A userid can be a member of at most one XRP-II group.

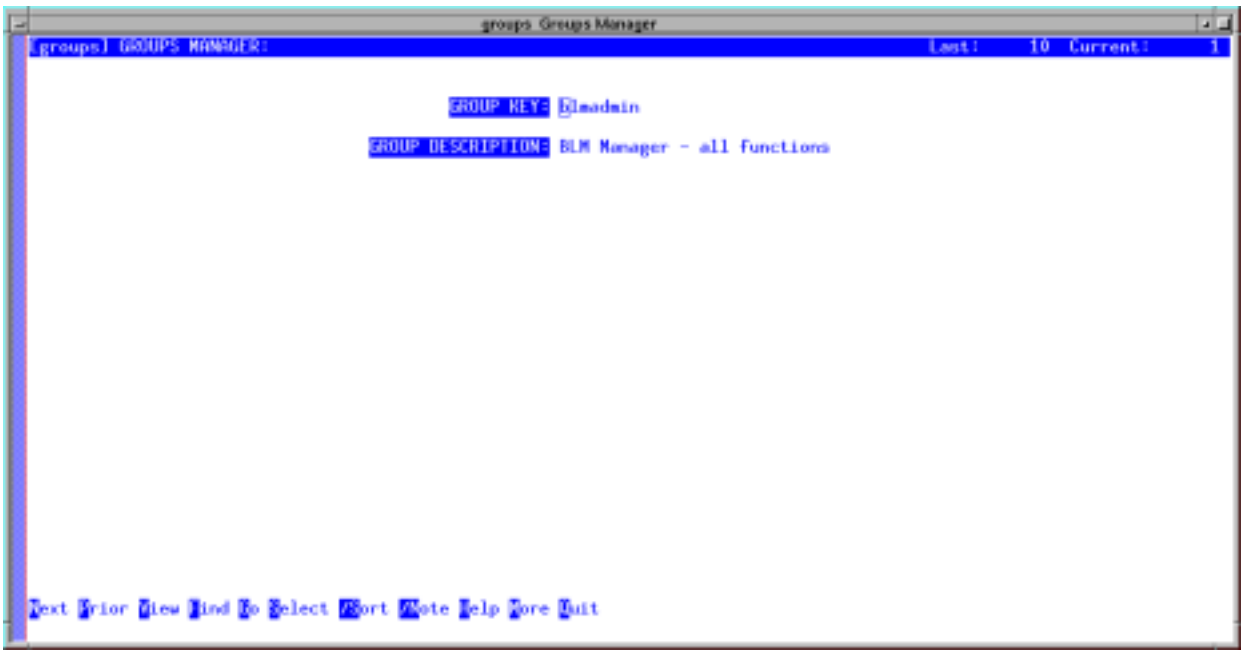


Figure 4.3.3-49. Groups Manager CHUI

XRP-II is delivered to the site with the following nine user groups pre-defined. xrpadmin - for the XRP-II super user. Has access and full privileges to all XRP-II menus and screens

- blmadmin - for the Baseline Manager focal point. Has access with full privileges to all BLM menus and screens and to system utilities and system tools. Has access with inquiry privileges to selected ILM menus and screens
- blmupdt - for those performing Baseline Manager data entry. Has access with full privileges to all BLM menus and screens. Has access with inquiry privileges to selected ILM menus and screens.
- blmquery - for those restricted to Baseline Manager data retrieval. Has access to BLM query and report menus and screens. Has access with inquiry privileges to selected ILM menus and screens.
- ilmadmin - for the Inventory, Logistics, Maintenance Manager focal point. Has access with full privileges to all ILM menus and screens and to system utilities and system tools. Has access to BLM query and report menus and screens.
- ilmuser - for those performing inventory data entry. Has access with full privileges to all inventory menus and screens. Has access to BLM query and report menus and screens.

- ilmquery - for those restricted to ILM data retrieval only. Has access with inquiry privileges to ILM menus and screens. Has access to BLM query and report menus and screens.

- ilmmaint - for the Maintenance Engineer. Has access to Maintenance menus and screens. Has access to BLM query and report menus and screens.

- ilmlog - for the Logistics Manager. Has access to the Logistics menus and screens. Has access to BLM query and report menus and screens.

Use the Groups Manager data entry screen to add, delete, modify or browse XRP-II group records. Table 4.3.3-36 describes the screen's fields.

Note: User Manager assigns userids to groups (see Section 4.3.3.2.12.2), and Screen Permission Control Manager assigns privileges to groups (see Section 4.3.3.2.12.4). A group must have been defined before it can have members or be given screen privileges.

Table 4.3.3-36. Groups Manager Field Descriptions

Field Name	Data Type	Size	Entry	Description
group key	string	8	required	Name that classifies XRP-II users according to access required to menus and screens
group description	string	30	optional	Textual characterization of a user group

4.3.3.2.12.4 Screen Permission Control Screen

Screen Permission Control (Figure 4-3.3-50) lets operators specify the XRP-II menus and data entry screens a user or user group can access and the data manipulation permissions the user or group are granted when accessing a screen. It replaces reliance on the "users" and "groups" files discussed in Sections 5 and D.5 of the System Reference Manual, however the concept of access and privileges by group and user is the same.

Use this screen to browse, add to, or edit existing screen permission control records. Each record renders a menu or data entry screen accessible to some user or group. For data entry screens, it also assigns to the user or group the privilege to query (inquire), add, modify, and/or delete records via the screen. A privilege is assigned by placing a "**Y**" in the appropriate privilege field. Similarly, a privilege is removed by placing an "**N**" in the appropriate privilege field.

Consider the following when modifying screen permissions:

- Privileges specified for a user take precedence over privileges specified for the user's group

- A user or group is granted access to a menu or screen only if a privilege is assigned.
- Assignment of All Privilege overrides other privileges specified in the record
- Privileges specified in the record do not override permission restrictions coded into specifications for the screen (e.g,, no user can update the database via a screen marked for querying the database only, regardless the privileges the user is given for the screen.)

Baseline Manager is delivered with a default set of user groups and associated screen permissions (see Section 4.3.3.3.2). Example ways an operator might extend this set include:

- Making a screen available to a group - add a record that names the screen and group, then assign at least one privilege for the group
- Making a screen accessible to only certain users - add a record for each user. Name the screen and the user, and assign at least one privilege for the user. Then find and delete any records that make the screen accessible to groups other than any established for the system administrator.
- Increasing a screen's privileges for a member of a group - add a record that names the screen and the user, and assign the extra privilege for the user.
- Restricting a screen's privileges for a member of a group - add a record that names the screen and the user, and remove the privilege(s) for the user

Table 4.3.3-37 describes this screen's fields.

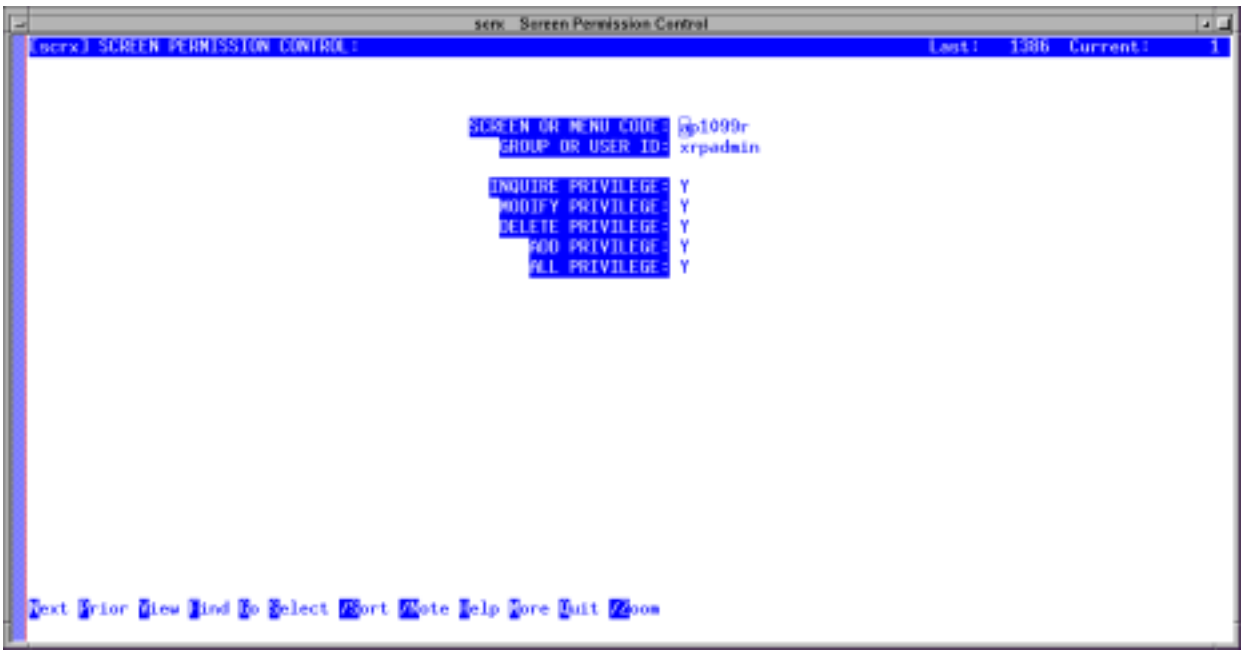


Figure 4.3.3-50. Screen Permission Control CHUI

Table 4.3.3-37. Screen Permission Control Field Descriptions

Field Name	Data Type	Size	Entry	Description
screen or menu code	string	8	required	Identifier (short name) that XRP-II programs use in referencing an XRP-II screen or menu (e.g., pici).
group or user id	string	8	required	Name that classifies XRP-II users according to access required to menus and screens, or an individual's Unix userid
inquire privilege	string	1	optional; Y,N	Code indicating if the group or user can: a) read database records via the named screen; or b) can access the named menu.
modify privilege	string	1	optional; Y,N	Code indicating if the group or user can: a) modify database records via the named screen; or b) can access the named menu.
delete privilege	string	1	optional; Y,N	Code indicating if the group or user can: a) delete database records via the named screen; or b) can access the named menu.
add privilege	string	1	optional; Y,N	Code indicating if the group or user can: a) add database records via the named screen; or b) can access the named menu.
all privilege	string	1	optional; Y,N	Code indicating if the group or user can: a) read, modify, delete, and add database records via the named screen; or, b) can access the named menu.

4.3.3.2.12.5 Menu Manager Screen

Operators use the Menu Manager screen (Figure 4.3.3-51) to customize XRP-II's hierarchy of menus. The screen maintains records that prescribe which submenus and data entry screens are available for selection from each menu and the order in which choices appear. Menus and screens must be defined via Screen Manager before they can be included in the hierarchy. The headers specified in screen manager records are the text used for displaying menu choices, in turn.

Use this screen add, delete, or modify menu structure records. Table 4-3.3-38 describes record fields.

Note: Menu structure records govern what choices can appear on a given menu. The choice will appear for a user only if screen permission control has a record that: 1) associates the screen or menu with either that user or that user's group; and 2) at least one access privilege is assigned.

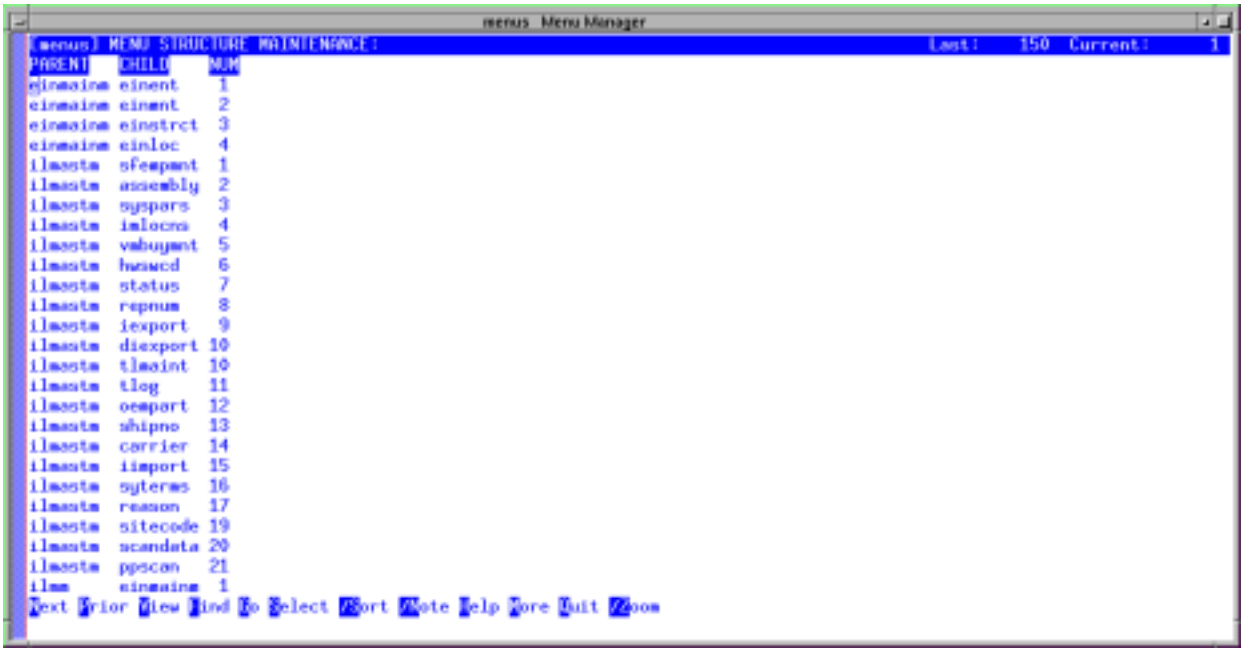


Figure 4.3.3-51. Menu Manager CHUI

Table 4.3.3-38. Menu Manager Field Descriptions

Field Name	Data Type	Size	Entry	Description
parent	string	8	required; zoom to select from a list of screens, menus and executables	Full, network-addressable name of a host
child	string	8	optional; zoom to select from a list of screens, menus and executables	Code that uniquely identifies an ECS site
menu number	numeric	2	optional	Sequence number of the child screen or menu in the selection list on the parent menu

4.3.3.2.12.6 Printer Manager Screen

The Printer Manager screen (Figure 4.3.3-52) provides access to XRP-II's list that defines printer selections and options available for generating both custom and ad hoc reports. The list is contained in an "msprinters" configuration file, which is described in Section 8.1.4 of the System Reference Manual.

Enter "**Y**" to confirm that XRP-II should proceed. XRP-II will run the Vi Editor and open the "msprinters" file. Edit the file, then exit Vi. XRP-II will recompile printer configuration binaries, making the new printer definitions available to all XRP-II operators.

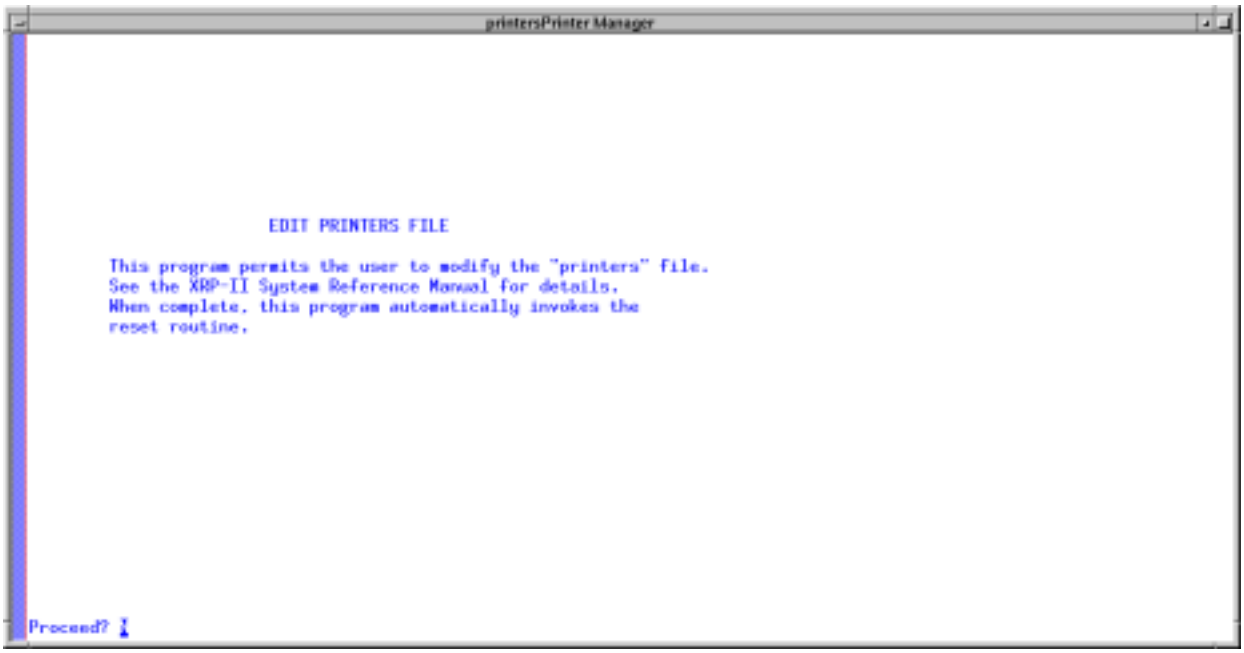


Figure 4.3.3-52. Printer Manager CHUI

4.3.3.2.12.7 Data Dump Utility Screen

Operators use the Data Dump Utility screen (Figure 4.3.3-53) to bulk dump one or more XRP-II database tables into specially-formatted data files. A file is created for each database table, and it contains all fields for all records in the table. Fields are separated by pipe symbols (|). The first line in each file identifies the field ordering. See the XRP Tools, Techniques, and Conventions Manual, Sections 1.5 and 1.6, for file format conventions XRP-II uses.

Enter Modify mode and, using Table 4.3.3-39 as a guide, specify which tables to dump and whether to archive the resulting data files. Return to Inquiry mode, then enter "**E**" to initiate the dump and "**Y**" at the confirmation prompt. XRP-II will create the requested data files and return to the System Tools menu.

Note: If a tar file is named, XRP-II archives all formatted data files it finds regardless whether the corresponding database table was part of the current dump.

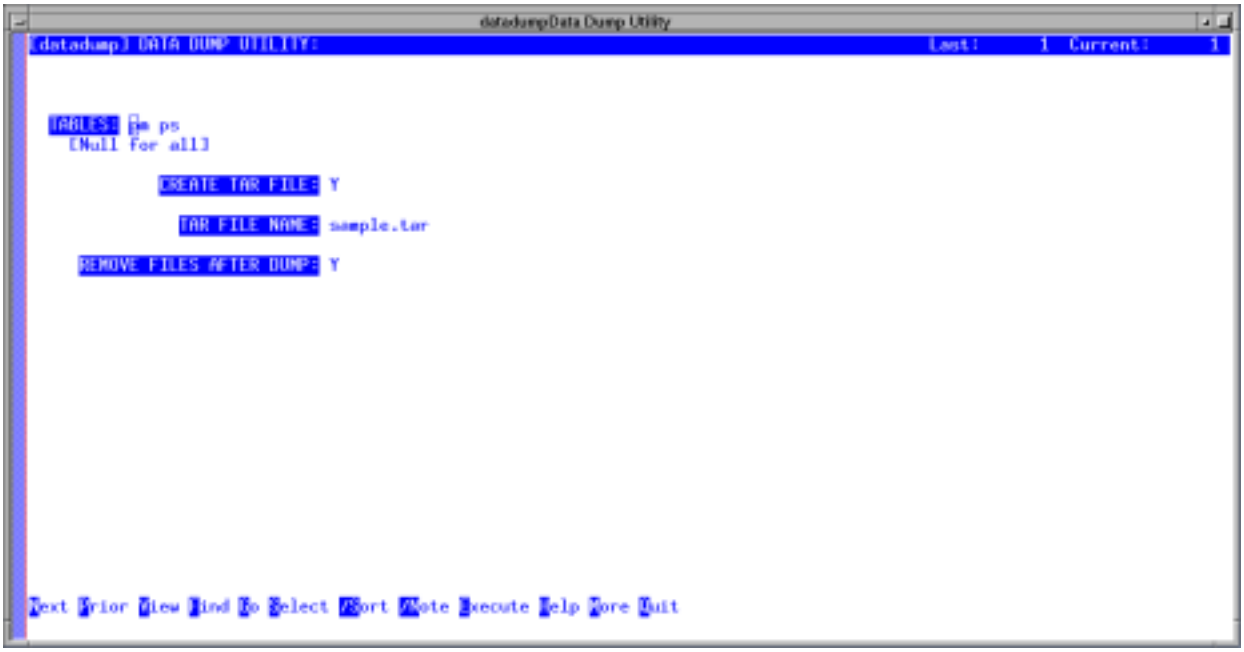


Figure 4.3.3-53. Data Dump Utility CHUI

Table 4.3.3-39. Data Dump Utility Field Descriptions

Field Name	Data Type	Size	Entry	Description
dump	string	60	optional	List of tables to dump (e.g., pm, ec, etc.). A null field causes all tables to be dumped. Section 4.3.3.4.1describes how to obtain a list of XRP-II table names
tar dump files	string	1	optional; Y,N	Code indicating whether or not to tar the data tables that were dumped
tar file name	string	40	optional	Pathname for the tar file in, or relative to, the database directory specified in environment variable $DBPATH

4.3.3.2.12.8 Data Load Utility Screen

Operators use the Data Load Utility screen (Figure 4.3.3-54) to bulk load specially-formatted data into one or more XRP-II database tables. The data must be in files that conform to XRP-II data conventions (see the XRP-II System Tools, Techniques, and Conventions Manual) or in an archive of such files.

Enter Modify mode and, using Table 4.3.3-40 as a guide, specify which tables to load and whether the data should be read from an archive. Return to Inquiry mode, then enter "**E**" to initiate the dump and "**Y**" at the confirmation prompt. XRP-II will create the requested data files and return to the System Tools menu.

Note: If no table names are specified on the data entry screen, XRP-II attempts to load data for tables, whether or not corresponding formatted data files are present.

Note: If a tar file is named, XRP-II expands the entire archive before loading any tables. If no table names are specified on the data entry screen, XRP-II loads from all formatted data files it finds regardless whether they had been part of the named archive.

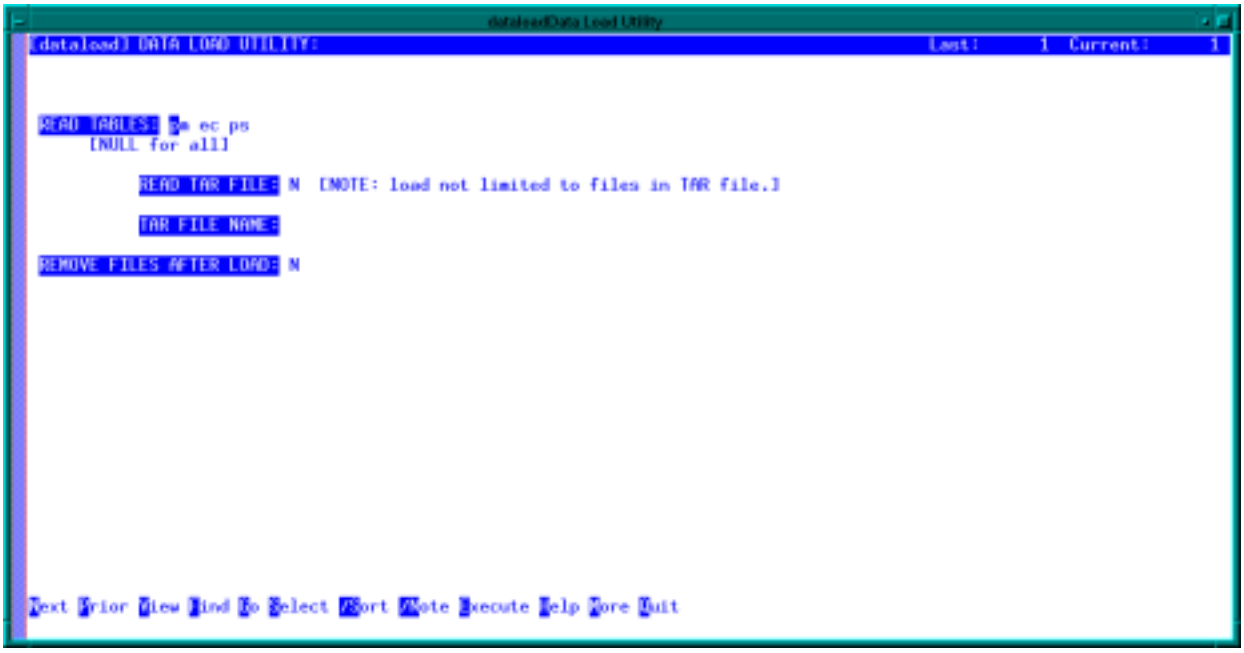


Figure 4.3.3-54. Data Load Utility CHUI

Table 4.3.3-40. Data Load Utility Field Descriptions

Field Name	Data Type	Size	Entry	Description
read tables	string	60	optional	List of tables to load (e.g., pm, ec, etc.). A null field causes all tables to be loaded. Section 4.3.3.4.1describes how to obtain a list of XRP-II table names
tar dump files	string	1	optional; Y,N	Code indicating whether or not the data to be loaded should be read from a tar file
tar file name	string	40	optional	Pathname of a tar file in, or relative to, the database directory specified in environment variable $DBPATH

4.3.3.2.12.9 Call Accell System Screen

This screen is used to invoke the menu system for the COTS product ACCELL and its UNIFY RDBS To invoke ACCELL, select **Call Accell System** from XRP's System Tools menu, then

type "**Y**" at the resulting prompt (see figure 4.3.3-55). The menus, detailed in Chapter 3 of the UNIFY Developer's Reference manual, provide access to several database maintenance utilities referred to in earlier sections. When done, type <**F5**> to exit.

Figure 4.3.3-55. Call Accell System CHUI

4.3.3.2.12.10 B-tree Index Maintenance

XRP-II uses B-tree indexes to speed up data retrieval. All indexes should be reset at least monthly to reduce their size and improve system performance. Use UNIFY's Add, Drop B-Tree Indexes data entry screen to rebuild XRP-II B-trees.

To reset B-Trees via the UNIFY menu handler, type **accell** from a command line prompt or invoke **Call Accell System** from the XRP-II's System Tools Menu. Navigate to the Add, Drop B-Tree Indexes data entry screen by selecting **ACCELL/DBMS**, **System Administration**, **Data Base Maintenance,** then **Add, Drop B-Tree Indexes** menu choices, in turn. From there, follow instructions contained in Section 8.5 of the UNIFY Developer's Reference. See Section 8.5 of the UNIFY Developer's Reference for a description of the data entry screen.

To access the B-trees program from the command line directly, set appropriate XRP-II environment variables (see Appendix) then change to the database directory ($DBPATH) and type **IDXMNT**.**Note:** No one should be logged on XRP-II when B-trees are being reset.

Note: Do not modify standard B-tree indexes defined in file "$MSPATH/mms/base.dd". Custom B-tree indexes, if any, are defined in file "$MSPATH/mms/nasa/nasa.dd". If the custom

".dd" file is modified, the Unify data dictionary should be reset by running 'mnset -a base nasa' from the database directory, $DBPATH.

4.3.3.2.12.11 Database Backup

Operators can write a checkpoint of the XRP-II database by using UNIFY's Write Data Base Backup program, BUDB. The program saves a copy of the database, B-tree indexes, and data dictionary to a diskette drive, a cartridge, a 9-track tape drive, or a file named in the BUDEV environment variable (see Appendix A).

Note: Operators must use this program in order to take advantage of UNIFY's transaction logging feature (see Section 4.3.3.2.12.13).

Note: Ensure no one is using the database when doing the backup.

To backup the database via the UNIFY menu handler, type **accell** from a command line prompt or invoke **Call Accell System** from the XRP-II's System Tools Menu. Navigate to the Write Data Base Backup data entry screen by selecting **ACCELL/DBMS**, **System Administration**, **Data Base Maintenance,** then **Write Data Base Backup** menu choices, in turn. From there, follow instructions contained in Section 9.1 of the UNIFY Developer's Reference.

To access the backup program from the command line, set appropriate XRP-II environment variables (see Appendix) then change to the database directory ($DBPATH) and type **BUDB**.

4.3.3.2.12.12 Database Restore

Operators restore a checkpointed XRP-II database by using UNIFY's Read Data Base Backup program.. The program loads a database, B-tree indexes, and data dictionary (previously saved by UNIFY's Write Data Base Backup program) from a diskette drive, a cartridge, or a 9-track tape drive named in the BUDEV environment variable. It also offers the operator options to replay the transaction log to rollforward the database and to re-saves the database. See Section 9.2 of the UNIFY Developer's Reference Manual for details, including information about replaying the transaction log and handling of errors.

Note: If transactions are rolled forward, transaction logging is forced OFF until the next backup is performed.

Note: Ensure no one is using the database when doing the restore.

To access the restore program via the UNIFY menu handler, type **accell.** Navigate to the Read Data Base Backup data entry screen by selecting **ACCELL/DBMS**, **System Administration**, **Database Maintenance**, then **Read Data Base Backup** menu choices, in turn. From there, follow instructions in Section 9.2 of the UNIFY Developer's Reference.

To access the restore program from the command line, set appropriate XRP-II environment variables (see) then change to the database directory, $DBPATH, and type **REDB**

4.3.3.2.12.13 UNIFY Transaction Logging Control

The UNIFY relational database management system can log database transactions so they can be rolled forward in the event of hardware or software failure to recover database updates made since

the last database checkpoint. Operators use the Transaction Logging Status data entry screen to set and display logging parameters. Section 12.1 of the UNIFY Developer's Reference Manual describes transaction logging in detail.

To access the transaction logging status program via the UNIFY menu handler, type **accell.** Select the **ACCELL/DBMS**, **System Administration**, then **Transaction Logging Status** menu choices, in turn. From there, follow instructions in Section 12.1 of the UNIFY Developer's Reference.

To access the transaction logging status program from the command line, set appropriate XRP-II environment variables (see Appendix) then change to the database directory ($DBPATH) and type **TXCONF**. From there, follow instructions in Section 12.1 of the UNIFY Developer's Reference.

4.3.3.2.12.14 Screen Reset

XRP-II's Datalook data entry screens need to be "reset" whenever their specification files are changed. Although this happens automatically when a change is made via Screen Manager's **E**ditscreen command, these ASCII text files can be altered or replaced other ways as well.

Use program **dvset** when necessary to reset a screen manually. It must be run from the XRP-II install directory, which is named in the environment variable MSPATH. See Section 3.3 of the Datalook/Datarite Reference Manual for a description of the Datalook screen development process how to use **dvset**.

4.3.3.2.12.15 Report Reset

XRP-II's report scripts need to be "reset" whenever their report specification files are changed. Like Datalook data entry screen specifications, report scripts are also stored in files as ASCII text.

Use program **rpset** as necessary to reset a report manually. It must be run from the XRP-II database directory, which is named in the environment variable DBPATH. See Sections 8.2 and 8.3 of the Datalook/Datarite Reference Manual for a details about how to use **rpset**.

4.3.3.2.12.16 Resource Planning Data File Generation

Baseline data stored in XRP-II can be used to seed Planning Subsystem (PLS) databases for resource planners. Script **resplan** extracts information about hosts, operating system software, hardware devices, and disk partitions that are part of a site's operational baseline and places the resource configuration data stream in file /usr/tmp/resplan as well as on standard output. The script is usually run by Tivoli in response to a "Fetch Baseline" event from the Planning Workstation, which subsequently conveys the output to a file on the Planning Workstation. But operators can invoke the script manually via shell command line.

Use **resplan** to generate a resource configuration data file for PLS or to preview data that would be "fetched" by resource planners. At a command line prompt, type:

resplan ***mm/dd/yy*** **<*code*>**, where:

- *mm/dd/yy* is a valid date

- *code* is the optional string Tivoli has been configured to use to specify which Sentry-log and administrator is to receive status messages resulting from the operation. The code gets embedded in a Tivoli "wasync" command that XRP-II issues.

4.3.3.3 Required Operating Environment

For all COTS packages, appropriate information on operating environments, tunable parameters, environment variables, and a list of vendor documentation can be found in a CM controlled document for each product. To find the documentation for XRP Baseline Manager, refer to the ECS Baseline Information System web page, URL http://cmdm.east.hitc.com/.

4.3.3.4 Databases

XRP-II stores control item data in a relational database managed by "UNIFY", a COTS relational database management system marketed under the product name "Accell". The database consists of a collection of tables in a single file (…/mms/bin/file.db) in the XRP-II principal directory. The structure of the database and the file in which it is stored is wholly maintained by the vendor, HTG Corporation.

Refer to the XRP-II System Reference Manual, Appendix B, for a discussion of XRP-II data structures and to the XRP-II Tools, Techniques, and Conventions Manual, Chapter 1, for discussions of utilities available for listing data dictionary and data record contents.

4.3.3.4.1 Database Schema

The standard XRP-II database schema was extended to implement the Baseline Manager and Inventory, Logistics, Maintenance Manager applications for ECS. The ECS database contains 173 tables and more than 2,200 fields. Data dictionary information is helpful and sometimes necessary for loading and dumping the database, troubleshooting, and customizing XRP-II screens and reports.

UNIFY can generate a Data Dictionary Report, but in hardcopy only (100+ pages). It contains a complete schema listing, a field list, a table list, and a list of table relationships; but it does not contain the field prompts and column headings seen on BLM and ILM screens and reports. These are known only to XRP-II. The Data Dictionary Report is described in Section 11.1 of the UNIFY Developer's Reference.

XRP-II provides two utilities, schemout and fldrep, that are run from the command line and may be more helpful because both write to standard output, making the data accessible for use with standard Unix redirection and utilities. Schemout produces a schema listing similar to the one generated by UNIFY's Data Dictionary Report. Fldrep produces a listing of database fields that includes the field prompts/column headings seen on XRP-II screens and reports together with each field's characteristics. Schemout and fldrep are discussed in Sections 1.15 and 1.13.3 of the Tools, Techniques and Conventions Reference Manual, respectively.

To obtain a UNIFY Data Dictionary Report from any XRP-II menu, type:

shell Obtains a command line prompt

cd $UNIFY/..	Changes working directory to the Accell principal directory
accell	Invokes the Accell main menu
2 <Enter>	Invokes the Accell/DBMS menu
7 <Enter>	Invokes the System Administration menu
7 <Enter>	Invokes the Data Dictionary Reports menu
1 <Enter>	Executes the Print Data Base Design program
<F5>	Exits Accell
exit	Returns to the XRP-II menu

To run schemout from any XRP-II menu, type:

shell	Obtains a command line prompt
schemout	Executes the schemout program
or	
schemout | grep -v "^ . . . . . [A-z]" | grep "[A-z]" | sort	Obtains a list of table names only
exit	Returns to the XRP-II menu

To run fldrep from any XRP-II menu, type:

shell	Obtains a command line prompt
fldrep	Executes the fldrep program
exit	Returns to the XRP-II menu

Note: Any of these programs can be run without first logging onto XRP-II. In a C-shell, start at the XRP-II database directory (typically, /usr/ecs/OPS/.COTS/xrp/mms/bin), source the XRP-II configuration file (typically /usr/ecs/OPS/COTS/xrp/scripts/xrp_csh_env.cfg), and omit the "shell" and "exit" commands.

4.3.3.5 Special Constraints

The ECS environment imposes the following constraints on how XRP-II is used :

- Control item identifiers - XRP-II uses centralized database technology and is separately installed at each ECS site. This necessitates a special scheme for assigning identifiers to control items so that sites may safely exchange database records. For example, the SMC must be able to distribute centrally maintained release records to multiple sites without interfering with records the sites locally maintain there. Similarly, the SMC must be able to absorb copies of site-maintained records forwarded by the sites to form the consolidated picture of system-wide baselines without contaminating centrally-maintained data. To distinguish between centrally maintained and site-maintained records, Baseline Manager expects that identifiers of site-maintained control items have a unique 3-character prefix that matches the first three characters of the site's code (see Section 4.3.3.2.11.1). To preclude confusion, identifiers of centrally-maintained control items should begin with a numeral.

- Database schemas - The XRP-II database schema must be identical at all ECS sites so that database records can be uniformly exchanged among them.

- Data entry screens - Table view driver programs cannot handle the number and size of fields used in the form view of many Baseline Manager data entry screens. Where limitations exist, fields that appear in table view were chosen either because they help identify control items or because they are likely to be used in multi-record operations.

- Import file directories - XRP-II uses the name contained in the IMPORTPATH environment variable as a destination when ftp'ing exported data records to other sites. Consequently, the directory that is used to receive the data should have the same name at each site.

4.3.3.6 Outputs

XRP-II is a database application whose principal outputs as Baseline Manager are formatted data files. These files are used to exchange records among XRP-II systems, to describe production baseline configurations for resource planners, and to store copies of reports. Other, ancillary files are occasionally produced in the course of processing, but they are for XRP-II's internal use and generally of no interest to operators. Table 4.3.3-41 lists and describes each of the above types of outputs.

Table 4.3.3-41. Outputs

Output	Description and Format
export/iimport tar files	Produced by XRP-II's "export" utilities, these are archives containing one or more .dasc files. (See Sections 4.3.3.2.3 and 4.3.3.2.5 above.)
.dasc files	Transient, ASCII files produced by XRP-II's "export" utilities and used by its import utility. Each file contains a header record followed by one or more detail records from a particular XRP-II database table. Each detail record contains values for a single database record, separated by pipe symbols. The header record contains the specification of the dump, identifying the database table and the names of the fields that correspond to values in the detail records. (See Section 1.6 of the XRP-II Tools, Techniques and Conventions Manual.)
.dspc files	Transient, ASCII files produced by XRP-II's import and export utilities. Each file identifies the name of a database file (table) and the names of fields in that file in the order required to load data in the database. Data is separated by pipe symbols. (See Section 1.6 of the XRP-II Tools, Techniques and Conventions Manual.)
resplan data file	An ASCII file consisting of one header record followed by one or more detail records. Each detail record identifies a control item that is marked as a planning resource and is part of a specified production baseline; it also identifies specific characteristics about the item. The header record contains a message that identifies the production baseline that was specified. This file is stored in directory /usr/tmp on the MSS CM Server, and a copy of it can be transmitted, via Tivoli, to the requestor. It is generated via command line interface.
print files	ASCII text files that contain reports requested via XRP-II data entry and report generation screens. These files are stored in the operator's home directory.
temporary files	Various working files XRP-II creates for its own internal use. These are stored in directory /usr/tmp on the MSS CM Server but not deleted by XRP-II.

4.3.3.7 Event and Error Messages

XRP-II issues both status and error messages. UNIFY manuals discuss common messages an operator may encounter, but no listing of standard XRP-II messages is provided in the COTS documentation. Messages are generally self-explanatory; however, some refer operators to log files which, in many cases, are intended for XRP-II programmers and require special training to interpret.

XRP-II has several event logs. One, located at file "xrp.log" within the XRP-II log subdirectory[4], contains a record of each user attempt to log into XRP-II via the menu handler. It identifies the user id, date, and time of an event, and indicates whether the attempt succeeded or failed. Other event logs, maintained in files in XRP's $MSPATH/log subdirectory, capture a chronology of XRP datadump, dataload, data export, and data import processing.

XRP-II also maintains a Transaction Log to identify database records that have been added or modified, and by whom. This log, stored in the database, can be browsed via the Transaction Log screen (see Section 4.3.3.2.11.2) to determine the date, time, operator, and type of change for

[4] The XRP-II principal directory is named in the MSPATH environment variable (see Section 4.3.3.2.3).

each update to a database field. The transaction log does not contain messages, per se, and is not monitored or used by ECS' system management applications.

Many errors XRP-II reports result from an error returned by the Unify RDBMS. Details about fatal errors are written to the error log files at the following pathnames relative to the XRP-II principal directory:

- ./bin/errlog
- ./def/errlog
- ./dicty/errlog
- ./bin/dbrbld.err
- ./bin/uniload.err
- ./dicty/uniload.err

These files generally do not contain the actual messages displayed to the operator, and they are meaningful mainly to the system administrator or XRP-II programmer. Appendix E of the UNIFY Direct HLI Programmer's reference manual describes some of the common messages written to the logs.

4.3.3.8 Reports

XRP-II can generate the pre-defined reports listed in Table 4.3.3-42. Each can be routed to the operator's display, a named file, or a printer.

XRP-II may make several printers available for a particular report. These printers often represent formatting choices rather than specific devices. Reports directed to a printer that does not correspond to a specific device will be printed on the operator's default printer device.

All of the pre-defined reports are generated according to specifications that are "compiled" using XRP-II's Datarite report writer. Authorized operators can develop custom specifications. See Section 8 of the Datalook/Datarite Reference Manual for details.

Table 4.3.3-42. Reports (1 of 3)

Report Type	Report Description	When and Why Used
Bill of Materials	A list that identifies and describes an assembly's constituent control items	As required
Indented Bill of Materials	A list that identifies and depicts the full assembly structure of a control item	As required
Summarized Bill Report	A list that identifies the control items in an assembly along with the quantity of each	As required

Table 4.3.3-42. Reports (2 of 3)

Report Type	Report Description	When and Why Used
Multilevel Where Used Display	A list that identifies and describes the assemblies in which a specified control item is used	As required
Multilevel Where Used Report	A list that identifies and describes the assemblies in which a specified control item is used together with the effectivity dates for each	As required
Configuration Items List - Level One	A list of all ECS configuration items active and deployed at the specified sites as of a specified date	As required
Configuration Items List - Level Two	A list of all ECS design components active and deployed at the specified sites as of a specified date	As required
Configured Articles List	A list of all active ECS configured articles for specified sites as of a specified date	As required
Version Description Report	A list of all active ECS configured articles for specified sites as of a specified date	As required
Site Baseline	A list of all ECS configured articles active and deployed as part of a specified baseline	As required
Change History	A list of all versions and product structure revisions for the specified item together with details associated with the item change	As required
BOM Comparison Report	A list that identifies the control items that two bills have in common as well as the control items in one that are not in the other.	As required
Hardware - Software Map	A list of software control items in a specified baseline as of a specified date. Items are listed by subsystem then host. Three formats are available for this report. The first lists software items contained in any software or hardware bundle mapped to the host, identifying the bundle to which it belongs and the version number of the item. The second is similar to the first, except it does not list items from any hardware bundles mapped to the host. The third lists only the items in software bundles mapped to a host and does not identify the item's version.	As required
Hardware-Patch Map	A list of the patches and patch bundles in a specified baseline as of a specified date. Patch items are listed by subsystem then host.	As required
Hardware Map	A list of hardware control items in a specified baseline as of a specified date. Items are listed by subsystem then host.	As required

Table 4.3.3-42. Reports (3 of 3)

Report Type	Report Description	When and Why Used
COTS Software Version Baseline	Descriptions of the software control items in a specified baseline as of a specified date. Two formats are available for the report. One lists the control item ids for each software item, and the other doesn't.	As required
Patch Baseline Report	Descriptions of the patches in a specified baseline as of a specified date	As required
Site - Host Map	A matrix presenting the names of the ECS hosts performing corresponding functions across the various sites for a specfied baseline as of a specfied date	As required
Baselined Documents (Title Order)	A list of documents sorted by title for a specified baseline as of a specified date	As required
Baselined Documents (Number Order)	A list of documents sorted by number for a specified baseline as of a specified date	As required

4.3.3.8.1 Sample Reports

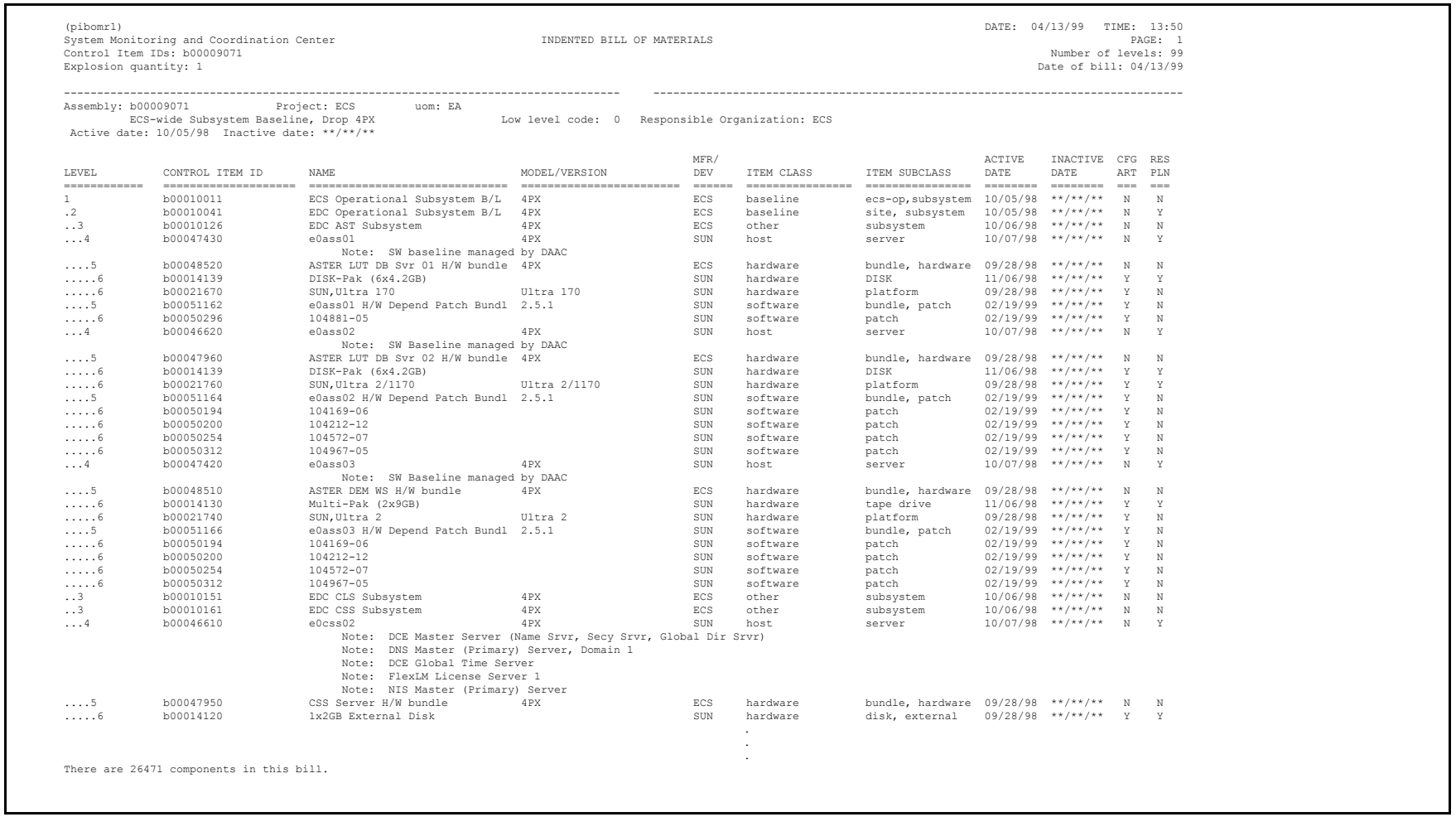
The figures that follow contain samples of Baseline Manager's pre-defined reports. One sample is provided for each report listed in Table 4.3.3-42.

```
(pibomr0)                                                                    DATE:  04/13/99   TIME:  14:33
System Monitoring and Coordination Center   BILL OF MATERIALS                                      PAGE:  1
Control Items IDs: b00009071                                                          Number of levels: 99
Explosion quantity: 1                                                               Date of bill: 04/13/99

-------------------------------------------------------------------------------------------------------------
Control Item ID: b00009071              Project: ECS
                  ECS-wide Subsystem Baseline, Drop 4PX                   uom: EA Resp. Org.: ECS
Current Revision:        Version:  4PX

                                                                                          QUANTITY
LVL   CONTROL ITEM ID       DESCRIPTION                                                        PER   CUOM
===   ===================  ====================================================  ============   ====
  1   b00010011             ECS Operational Subsystem Baseline, Drop 4PX                   1.0000   EA
  2   b00010041             EDC Operational Subsystem Baseline, Drop 4PX                   1.0000   EA
  3   b00010126            EDC ASTER Subsystem                                             1.0000   EA
  4   b00047430            ASTER LUT Database Server 01                                    1.0000   EA
  5   b00048520            HW Bundle for ASTER LUT DB Server 01                            1.0000   EA
  6   b00014139            DISK-Pak (6x4.2GB)                                              2.0000   EA
  6   b00021670            SUN,Ultra 170                                                   1.0000   EA
  5   b00051162             e0ass01 Hardware Dependent Patch Bundle                        1.0000   EA
  6   b00050296             Ultra 1 (non-E) Standalone Flash PROM Update                   1.0000   EA
  4   b00046620            ASTER LUT Database Server 02                                    1.0000   EA
  5   b00047960            HW Bundle for ASTER LUT Database Server 02                      1.0000   EA
  6   b00014139            DISK-Pak (6x4.2GB)                                              2.0000   EA
  6   b00021760            SUN,Ultra 2/1170                                                1.0000   EA
  5   b00051164             e0ass02 Hardware Dependent Patch Bundle                        1.0000   EA
  6   b00050194             Ultra 2 Standalone Flash PROM Update                           1.0000   EA
  6   b00050200            /kernel/drv/hme                                                 1.0000   EA
  6   b00050254             fixes in handling multicast addresses                          1.0000   EA
  6   b00050312             POINT PATCH for BSI chip error and nf_snmd bugs                1.0000   EA
  4   b00047420            ASTER DEM Workstation                                           1.0000   EA
  5   b00048510            HW Bundle for ASTER DEM Workstation                             1.0000   EA
  6   b00014130            Multi-Pak (2x9GB)                                               1.0000   EA
  6   b00021740            SUN,Ultra 2                                                     1.0000   EA
  5   b00051166             e0ass03 Hardware Dependent Patch Bundle                        1.0000   EA
  6   b00050194             Ultra 2 Standalone Flash PROM Update                           1.0000   EA
  6   b00050200            /kernel/drv/hme                                                 1.0000   EA
                                                  .
                                                  .
                                                  .
There are 26471 components in this bill.
-------------------------------------------------------------------------------------------------------------
```

Figure 4.3.3-56. Bill of Materials Report



(pibomr1) DATE: 04/13/99 TIME: 13:50
System Monitoring and Coordination Center INDENTED BILL OF MATERIALS PAGE: 1
Control Item IDs: b00009071 Number of levels: 99
Explosion quantity: 1 Date of bill: 04/13/99

Assembly: b00009071 Project: ECS uom: EA
ECS-wide Subsystem Baseline, Drop 4PX Low level code: 0 Responsible Organization: ECS
Active date: 10/05/98 Inactive date: **/**/**

LEVEL	CONTROL ITEM ID	NAME	MODEL/VERSION	MFR/ DEV	ITEM CLASS	ITEM SUBCLASS	ACTIVE DATE	INACTIVE DATE	CFG ART	RES PLN
1	b00010011	ECS Operational Subsystem B/L	4PX	ECS	baseline	ecs-op,subsystem	10/05/98	**/**/**	N	N
.2	b00010041	EDC Operational Subsystem B/L	4PX	ECS	baseline	site, subsystem	10/05/98	**/**/**	N	Y
..3	b00010126	EDC AST Subsystem	4PX	ECS	other	subsystem	10/06/98	**/**/**	N	N
...4	b00047430	e0ass01	4PX	SUN	host	server	10/07/98	**/**/**	N	Y
		Note: SW baseline managed by DAAC								
....5	b00048520	ASTER LUT DB Svr 01 H/W bundle	4PX	ECS	hardware	bundle, hardware	09/28/98	**/**/**	N	N
.....6	b00014139	DISK-Pak (6x4.2GB)		SUN	hardware	DISK	11/06/98	**/**/**	Y	Y
.....6	b00021670	SUN,Ultra 170	Ultra 170	SUN	hardware	platform	09/28/98	**/**/**	Y	N
....5	b00051162	e0ass01 H/W Depend Patch Bundl	2.5.1	SUN	software	bundle, patch	02/19/99	**/**/**	Y	N
.....6	b00050296	104881-05		SUN	software	patch	02/19/99	**/**/**	Y	N
...4	b00046620	e0ass02	4PX	SUN	host	server	10/07/98	**/**/**	N	Y
		Note: SW Baseline managed by DAAC								
....5	b00047960	ASTER LUT DB Svr 02 H/W bundle	4PX	ECS	hardware	bundle, hardware	09/28/98	**/**/**	N	N
.....6	b00014139	DISK-Pak (6x4.2GB)		SUN	hardware	DISK	11/06/98	**/**/**	Y	Y
.....6	b00021760	SUN,Ultra 2/1170	Ultra 2/1170	SUN	hardware	platform	09/28/98	**/**/**	Y	Y
....5	b00051164	e0ass02 H/W Depend Patch Bundl	2.5.1	SUN	software	bundle, patch	02/19/99	**/**/**	Y	N
.....6	b00050194	104169-06		SUN	software	patch	02/19/99	**/**/**	Y	N
.....6	b00050200	104212-12		SUN	software	patch	02/19/99	**/**/**	Y	N
.....6	b00050254	104572-07		SUN	software	patch	02/19/99	**/**/**	Y	N
.....6	b00050312	104967-05		SUN	software	patch	02/19/99	**/**/**	Y	N
...4	b00047420	e0ass03	4PX	SUN	host	server	10/07/98	**/**/**	N	Y
		Note: SW Baseline managed by DAAC								
....5	b00048510	ASTER DEM WS H/W bundle	4PX	ECS	hardware	bundle, hardware	09/28/98	**/**/**	N	N
.....6	b00014130	Multi-Pak (2x9GB)		SUN	hardware	tape drive	11/06/98	**/**/**	Y	Y
.....6	b00021740	SUN,Ultra 2	Ultra 2	SUN	hardware	platform	09/28/98	**/**/**	Y	N
....5	b00051166	e0ass03 H/W Depend Patch Bundl	2.5.1	SUN	software	bundle, patch	02/19/99	**/**/**	Y	N
.....6	b00050194	104169-06		SUN	software	patch	02/19/99	**/**/**	Y	N
.....6	b00050200	104212-12		SUN	software	patch	02/19/99	**/**/**	Y	N
.....6	b00050254	104572-07		SUN	software	patch	02/19/99	**/**/**	Y	N
.....6	b00050312	104967-05		SUN	software	patch	02/19/99	**/**/**	Y	N
..3	b00010151	EDC CLS Subsystem	4PX	ECS	other	subsystem	10/06/98	**/**/**	N	N
..3	b00010161	EDC CSS Subsystem	4PX	ECS	other	subsystem	10/06/98	**/**/**	N	N
...4	b00046610	e0css02	4PX	SUN	host	server	10/07/98	**/**/**	N	Y
		Note: DCE Master Server (Name Srvr, Secy Srvr, Global Dir Srvr)								
		Note: DNS Master (Primary) Server, Domain 1								
		Note: DCE Global Time Server								
		Note: FlexLM License Server 1								
		Note: NIS Master (Primary) Server								
....5	b00047950	CSS Server H/W bundle	4PX	ECS	hardware	bundle, hardware	09/28/98	**/**/**	N	N
.....6	b00014120	1x2GB External Disk		SUN	hardware	disk, external	09/28/98	**/**/**	Y	Y
					.					
					.					
					.					

There are 26471 components in this bill.

Figure 4.3.3-57. Indented Bill of Materials Report

(pisumr) DATE: 04/13/99 TIME: 12:47

System Monitoring and Coordination Center SUMMARIZED BILL REPORT PAGE: 1

Control Item ID: b00009071 Date of Configuration: 04/13/99

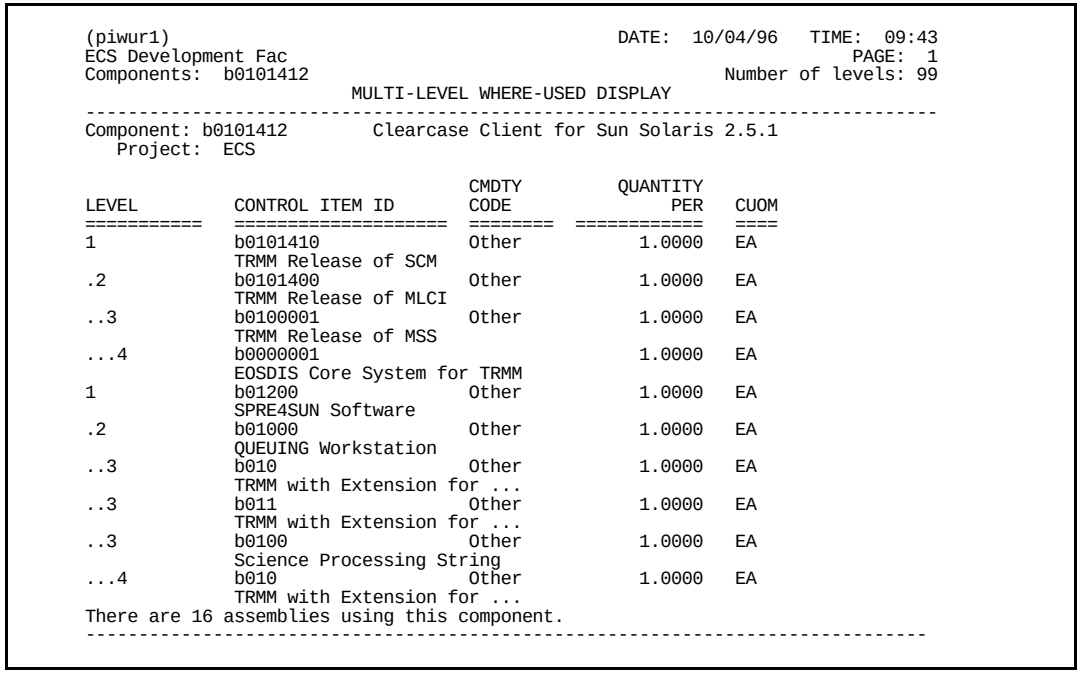
ASSEMBLY	DESCRIPTION	NAME	CLASS
b00009071	ECS-wide Subsystem Baseline, Drop 4PX	ECS-wide Subsystem B/L	baseline

COMPONENT	DESCRIPTION	NAME	CLASS	UOM	QUANTITY
b00010011	ECS Operational Subsystem Baseline, Drop 4PX	ECS Operational Subsystem B/L	baseline	EA	1.000
b00010023	EDF Subsystem Baseline, Drop 4PX	EDF Subsystem B/L	baseline	EA	1.000
b00010024	EDF Subsystem Baseline, Ver.2.0, Drop 4PX	EDF Subsystem B/L	baseline	EA	1.000
b00010026	VATC Subsystem Baseline, Ver.2.0, Drop 4P1	VATC Subsystem B/L	baseline	EA	1.000
b00010027	Mini-DAAC SMC Subsystem B/L, Drop 4PX	Mini-DAAC SMC Subsystem B/L	baseline	EA	2.000
b00010028	VATC-SMC Subsystem B/L, Ver.2.0, Drop 4P1	VATC-SMC Subsystem B/L	baseline	EA	1.000
b00010031	GSFC Operational Subsystem Baseline, Drop 4PX	GSFC Operational Subsystem B/L	baseline	EA	1.000
b00010032	SMC Operational Subsystem Baseline, Drop 4PX	SMC Operational Subsystem B/L	baseline	EA	1.000
b00010033	VATC Subsystem Baseline, Drop 4PX	VATC Subsystem B/L	baseline	EA	2.000
b00010034	EDF Mini-DAAC Subsystem Baseline, Ver.2.0, Drop 4PX	EDF Mini-DAAC Subsystem B/L	baseline	EA	1.000
b00010035	NSIDC Operational Subsystm Baseline, Drop 4PX	NSIDC Operational Subsystem BL	baseline	EA	1.000
b00010036	Mini-DAAC SMC Subsystem B/L, Ver.2.0, Drop 4PX	Mini-DAAC SMC Subsystem B/L	baseline	EA	1.000
b00010037	VATC-SMC Subsystem B/L, Drop 4PX	VATC-SMC Subsystem B/L	baseline	EA	2.000
b00010041	EDC Operational Subsystem Baseline, Drop 4PX	EDC Operational Subsystem B/L	baseline	EA	1.000
b00010049	LaRC Operational Subsystem Baseline, Drop 4PX	LaRC Operational Subsystem B/L	baseline	EA	1.000
b00010051	EDF Mini-DAAC Subsystem Baseline, Drop 4PX	EDF Mini-DAAC Subsystem B/L	baseline	EA	2.000
b00010056	GSFC ASTER Subsystem	GSFC AST Subsystem	other	EA	1.000
b00010061	GSFC Data Server Subsystem	GSFC DSS Subsystem	other	EA	1.000
b00010071	GSFC Data Processing Subsystem	GSFC DPS Subsystem	other	EA	1.000
b00010076	GSFC Client Subsystem	GSFC CLS Subsystem	other	EA	1.000
b00010081	GSFC Communications Subsystem	GSFC CSS Subsystem	other	EA	1.000
b00010091	GSFC Data Management Subsystem	GSFC DMS Subsystem	other	EA	1.000
b00010101	GSFC Ingest Subsystem	GSFC INS Subsystem	other	EA	1.000
b00010111	GSFC System Management Subsystem	GSFC MSS Subsystem	other	EA	1.000
b00010113	GSFC Internetworking Subsystem	GSFC ISS Subsystem	other	EA	1.000
b00010116	GSFC Interoperability Subsystem	GSFC IOS Subsystem	other	EA	1.000
b00010121	GSFC Planning Subsystem	GSFC PLS Subsystem	other	EA	1.000
b00010126	EDC ASTER Subsystem	EDC AST Subsystem	other	EA	1.000
b00010131	EDC Data Server Subsystem	EDC DSS Subsystem	other	EA	1.000
b00010141	EDC Data Processing Subsystem	EDC DPS Subsystem	other	EA	1.000
b00010151	EDC Client Subsystem	EDC CLS Subsystem	other	EA	1.000
b00010161	EDC Communications Subsystem	EDC CSS Subsystem	other	EA	1.000

.
.
.

There are 2096 parts in this summarized bill.

Figure 4.3.3-58. Summarized Bill Report



```
(piwur1)                                              DATE:  10/04/96   TIME:  09:43
ECS Development Fac                                                        PAGE:  1
Components:  b0101412                                      Number of levels: 99
                          MULTI-LEVEL WHERE-USED DISPLAY
--------------------------------------------------------------------------------
Component: b0101412        Clearcase Client for Sun Solaris 2.5.1
   Project:  ECS

                                      CMDTY          QUANTITY
LEVEL          CONTROL ITEM ID        CODE                PER   CUOM
===========    ====================   ========   ============   ====
1              b0101410               Other            1.0000   EA
               TRMM Release of SCM
.2             b0101400               Other            1.0000   EA
               TRMM Release of MLCI
..3            b0100001               Other            1.0000   EA
               TRMM Release of MSS
...4           b0000001                                1.0000   EA
               EOSDIS Core System for TRMM
1              b01200                 Other            1.0000   EA
               SPRE4SUN Software
.2             b01000                 Other            1.0000   EA
               QUEUING Workstation
..3            b010                   Other            1.0000   EA
               TRMM with Extension for ...
..3            b011                   Other            1.0000   EA
               TRMM with Extension for ...
..3            b0100                  Other            1.0000   EA
               Science Processing String
...4           b010                   Other            1.0000   EA
               TRMM with Extension for ...
There are 16 assemblies using this component.
--------------------------------------------------------------------------------
```

Figure 4.3.3-59. Where-Used Display

(piwur) DATE: 04/13/99 TIME: 12:24

System Monitoring and Coordination Center MULTI-LEVEL WHERE-USED REPORT PAGE: 1

Components: b00015000 Number of levels: 2

Date of Configuration: 04/13/99

Component: b00015000 Project: ECS uom: EA

Configuration Management Low level code: 6 Resp. Org.: MSS

Active date: 07/21/98 Inactive date: **/**/**

LEVEL	CONTROL ITEM ID	NAME	MODEL/VERSION	CUOM	EXTENDED QUANTITY	ACTIVE DATE	INACTIVE DATE
1	b00041380	Planning/Mgmt WS 01 S/W bundle	4PX	EA	1.0	09/28/98	**/**/**
.2	b00045000	t1sms10	4PX	EA	1.0	01/22/99	**/**/**
.2	b00045110	t1pls02	4PX	EA	1.0	09/28/98	**/**/**
.2	b00046020	l0pls02	4PX	EA	1.0	09/28/98	**/**/**
.2	b00047360	e0pls03	4PX	EA	1.0	09/28/98	**/**/**
.2	b00045690	n0pls02	4PX	EA	1.0	09/28/98	**/**/**
.2	b00045490	m0mss12	4PX	EA	1.0	09/28/98	**/**/**
.2	b00046220	g0pls01	4PX	EA	1.0	09/28/98	**/**/**
1	b00040850	PDPS DBMS Server S/W bundle	4PX	EA	1.0	09/28/98	**/**/**
.2	b00045120	t1pls01	4PX	EA	1.0	09/28/98	**/**/**
.2	b00046030	l0pls01	4PX	EA	1.0	09/28/98	**/**/**
.2	b00046480	e0pls02	4PX	EA	1.0	09/28/98	**/**/**
.2	b00045700	n0pls01	4PX	EA	1.0	09/28/98	**/**/**
.2	b00046210	g0pls02	4PX	EA	1.0	09/28/98	**/**/**
1	b00040860	Planning/Mgmt WS 02 S/W bundle	4PX	EA	1.0	09/28/98	**/**/**
.2	b00046490	e0pls01	4PX	EA	1.0	09/28/98	**/**/**
.2	b00045680	n0pls03	4PX	EA	1.0	09/28/98	**/**/**
.2	b00046200	g0pls03	4PX	EA	1.0	09/28/98	**/**/**
1	b00040870	CM Server S/W bundle	4PX	EA	1.0	09/28/98	**/**/**
.2	b00045040	t1sms05	4PX	EA	1.0	09/28/98	**/**/**
.2	b00045160	t1mss03	4PX	EA	1.0	09/28/98	**/**/**
.2	b00046050	l0mss01	4PX	EA	1.0	09/28/98	**/**/**
.2	b00046530	e0mss02	4PX	EA	1.0	09/28/98	**/**/**
.2	b00045740	n0mss02	4PX	EA	1.0	09/28/98	**/**/**
.2	b00045510	m0mss02	4PX	EA	1.0	09/28/98	**/**/**
.2	b00046270	g0mss02	4PX	EA	1.0	09/28/98	**/**/**
1	b00061440	CM Server S/W bundle	4PY	EA	1.0	03/12/99	**/**/**
.2	b00061216	t1sms05	4PY	EA	1.0	03/12/99	**/**/**
.2	b00061196	t1mss03	4PY	EA	1.0	03/12/99	**/**/**
.2	b00061106	n0mss02	4PY	EA	1.0	03/12/99	**/**/**

.
.
.

There are 150 assemblies affected by this component.

Figure 4.3.3-60. Multilevel Where-Used Report

(cil1) DATE: 08/19/96 TIME: 19:26
ECS Development Fac ECS CONFIGURATION ITEMS LIST - LEVEL ONE PAGE: 1
SITE: GSFC Date of bill: 05/30/96

Subsystem: MSS Management Subsystem

CI MNEMONIC	CI NAME	CI CONTROL ITEM ID	CI DESCRIPTION	CI MODEL/VERSION	CI SCOPE
MACI	Management Agent	b0101100	Management Agent CSCI	A.IT.01	core
MCI	Management Software	b0101200	Management Software CSCI	A.IT.01	core
MHCI	Management Hardware	b0101300	Management Hardware CI	A.IT.01	core
MLCI	Management Logistics	b0101400	Management Logistics CSCI	A.IT.01	core

Subsystem: CSS Communication Subsystem

CI MNEMONIC	CI NAME	CI CONTROL ITEM ID	CI DESCRIPTION	CI MODEL/VERSION	CI SCOPE
DCCI	Distr Computing Software	b0102100	Distributed Computing Sof	A.IT.01	core
DCHCI	Distr Computing Hardware	b0102200	Distributed Computing Har	A.IT.01	core

.
.
.

Figure 4.3.3-61. Configuration Items List - Level One

(cil2) DATE: 08/19/96 TIME: 19:48
ECS Development Facility ECS CONFIGURATION ITEMS LIST - LEVEL TWO PAGE: 1
Site or range: EDF Date of bill: 05/30/96

Subsystem: MSS : Management Subsystem Version: A.IT.01

CI Item: MHCI : Management Hardware Version: A.IT.01

COMPONENT MNEMONIC	COMPONENT NAME	COMPONENT CONTROL ITEM ID	COMONENT DESCRIPTION	COMPONENT MODEL/VERSION	COMP SCOPE
	Enterprise Mgmt Svr	b0101310	TRMM Release of EMC Server	A.IT.01	core
	Local Sys Mgmt Svr	b0101320	TRMM Release of LSM Server	A.IT.01	core
	Enterprise Mgnt Wks	b0101330	TRMM Release of EMC Wkstation	A.IT.01	core
	Local Sys Mgmt Wks	b0101340	TRMM Release of LSM Wkstation	A.IT.01	core
	Management Printer	b0101350	TRMM Release of MSS Printer	A.IT.01	core

CI Item: MLCI Management Logistics CSCI Version: A.IT.01

. . .

Figure 4.3.3-62. Configuration Items List - Level Two

(cal7) DATE: 08/19/96 TIME: 20:12
ECS Development Fac ECS CONFIGURED ARTICLES LIST PAGE: 1
Site(s): EDF Date of Configuration: 05/30/96

CONFIGURATION ITEM: Management Logistics CSCI CONTROL ITEM ID: b0101400

CONFIGURED ARTICLE NAME	MOD/VER	CONTROL ITEM ID	IMPL STATUS	ITEM SUBCLASS	CMDTY CD	SCOPE
ClearCase Client	2.1	b0101412	production	appl-client	COTS	core
ClearCase Server	2.0.2	b0101414	production	appl-server	COTS	core
ClearCase Scripts	A.IT.01	b0101416	production	appl-scripts	custom	core

CONFIGURATION ITEM: Management Sftware CSCI CONTROL ITEM ID: b010120

. . .

Figure 4.3.3-63. Configured Articles List

(vdd) DATE: 09/05/96 TIME: 08:47
ECS Development Fac VERSION DESCRIPTION DOCUMENT PAGE: 1
Control Item ID: b0000001 Date of Configuration: 06/03/96
Site: EDF

SITE: EDF : ECS Development Fac

Subsystem: MSS : Management Subsystem Control Item ID: b0100001

Configuration Item: MLCI : Management Logistics Control Item ID: b0101400

Component: SCM : Software Change Mgr Control Item ID: b0101410

CONTROL ITEM NAME	MODEL/VERSION	CONTROL ITEM ID	MFR/DEV	CLASS	SUB CLASS	NUM LIC	ACTIVE DATE	INACTIVE DATE	CMDTY CODE	SCOPE
ClearCase Scripts	A.IT.01	b0101616	ECS	software	appl-scripts	99999	05/23/96	**/**/**	custom	Core
ClearCase Server	2.0.2	b0101414	ATR	software	appl-server	75	05/23/96	**/**/**	COTS	Core
ClearCase Client	2.1	b0101412	ATR	software	appl-client	75	05/23/96	**/**/**	COTS	Core
ClearCase DDTS Integrati	2	b0101418	ATR	software	appl-scripts	75	05/23/96	**/**/**	COTS	Core

Component: CRM : Change Request Mgr Control Item ID: 0101420

CONTROL ITEM NAME	MODEL/VERSION	CONTROL ITEM ID	MFR/DEV	CLASS	SUB CLASS	NUM LIC	ACTIVE DATE	INACTIVE DATE	CMDTY CODE	SCOPE
Dist Defect Track'g Sys	A.IT.01	b0101422	PUR	software	application	250	05/23/96	**/**/**	COTS	Core

Component: BLM : Basseline Manager Control Item ID: 0101430

CONTROL ITEM NAME	MODEL/VERSION	CONTROL ITEM ID	MFR/DEV	CLASS	SUB CLASS	NUM LIC	ACTIVE DATE	INACTIVE DATE	CMDTY CODE	SCOPE
XRP-II	3.0	b0101432	HTG	software	application	50	05/23/96	**/**/**	COTS	Core
UNIFY DBMS	5.0.7.2.0	b0101434	UNI	software	application	50	05/23/96	**/**/**	COTS	Core

. . .

Figure 4.3.3-64. Version Description Report

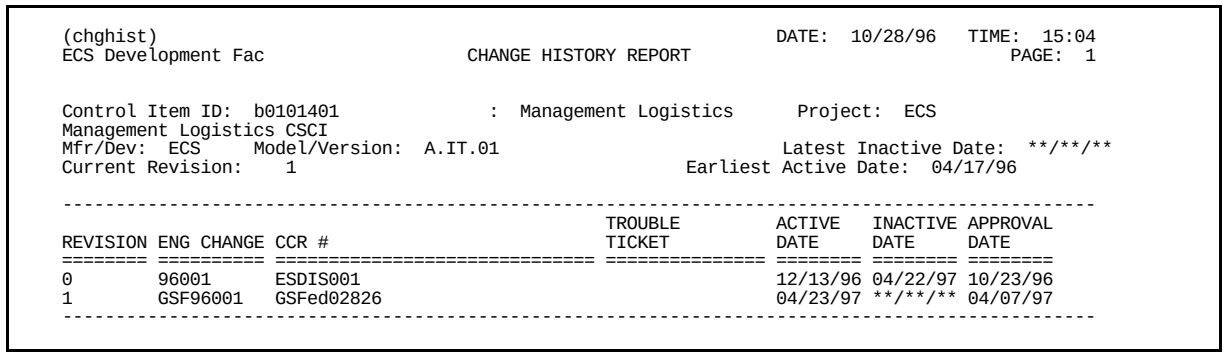
(sitebase) DATE: 08/19/96 TIME: 20:22
ECS Development Fac SITE BASELINE REPORT PAGE: 1
All Control Items Number of levels: 99
Date of configuration: 05/30/96

Baseline: bLAR010
TRMM Baseline with LaRC extenstions for …

LEVEL	CONTROL ITEM ID	DESCRIPTION	MFR/DEV	MODEL/VER	ACTIVE DATE	INACTIVE DATE
1	bLAR01000	Queuing Server		A…	05/01/96	**/**/**
.2	bLAR73005	Queuing Server boot partition	ECS	A…	05/23/96	**/**/**
.2	bLAR73006	Queuing Server user partition	ECS	A…	05/23/96	**/**/**
.2	bLAR1100	sprl7sun Hardware		A…	05/23/96	**/**/**
..3	b01101	SUN SPARCSTATION SX 20/71	SUN	SPARCSTATION SX 20/71	05/23/96	**/**/**
..3	b01102	20 INCH COLOR MONITOR	SUN		05/23/96	**/**/**
..3	b01103	EXPANDED 101 KEYBOARD	SUN		05/23/96	**/**/**
..3	b01104	3 BUTTON TRACKBALL MOUSE	SUN		05/23/96	**/**/**
..3	b01105	64 MB EXP MEM MODULE	SUN		05/23/96	**/**/**
..3	b01107	IBM 1.05GB INTERNAL DISK DRIVE	IBM		05/23/96	**/**/**
..3	b01109	SBUS FAST SCSI-2 ETHERNET CARD	SUN		05/23/96	**/**/**
..3	b01112	INTERNAL CD ROM	SUN	Ultra 2	05/23/96	**/**/**
.2	b01200	sprl7sun Software	ECS	A…	05/23/96	**/**/**
..3	b0101414	ClearCase Server for Sun Solar	ATR	2.0.2	05/23/96	**/**/**
..3	b0101416	ClearCase Scripts for TRMM	ATR	A	05/23/96	**/**/**
..3	b01201	SOLARIS OS	SUN	Solaris 2.4	05/23/96	**/**/**

.
.
.

Figure 4.3.3-65. Site Baseline Report



```
(chghist)                                                          DATE:  10/28/96   TIME:  15:04
ECS Development Fac                  CHANGE HISTORY REPORT                                PAGE:  1


Control Item ID:  b0101401             :  Management Logistics      Project:  ECS
Management Logistics CSCI
Mfr/Dev:  ECS     Model/Version:  A.IT.01                          Latest Inactive Date:  **/**/**
Current Revision:    1                                     Earliest Active Date:  04/17/96

-------------------------------------------------------------------------------------------------
                                                     TROUBLE         ACTIVE   INACTIVE APPROVAL
REVISION ENG CHANGE CCR #                            TICKET          DATE     DATE     DATE
======== ========== ============================== =============== ======== ======== ========
0        96001      ESDIS001                                        12/13/96 04/22/97 10/23/96
1        GSF96001   GSFed02826                                      04/23/97 **/**/** 04/07/97
-------------------------------------------------------------------------------------------------
```

Figure 4.3.3-66. Change History Report

(bomcmp) DATE: 10/04/96 TIME: 11:33
ECS Development Fac BILL OF MATERIAL COMPARISON REPORT PAGE: 1

Control Item One: b0101400 Control Item Two: b0101400
Version: 0 Version: 0
Description: TRMM Release of MLCI Description: TRMM Release of MLCI
Revision: 0 Revision: 1
Date of Configuration: 09/08/96 Date of Configuration: 10/04/96

Items in b0101400 found in: b0101400
Cfg Date: 09/08/96 Cfg Date: 10/04/96

CONTROL ITEM ID	DESCRIPTION	MFR/DEV	MODEL/VERSION	CLASS	SUBCLASS
b0101410	TRMM Release of SCM	ECS	A.IT.01	design	CSC
b0101420	TRMM Release of CRM	ECS	A.IT.01	design	CSC
b0101430	TRMM Release of BM	ECS	A.IT.01	design	CSC
b0101412	Clearcase Client for Sun Solaris 2.4	ATR	2.1	software	appl-client
b0101416	ClearCase Scripts for TRMM	ATR	A.IT.01	software	appl-scripts

Items in b0101400 NOT found in: b0101400
Cfg Date: 09/08/96 Cfg Date: 10/04/96

CONTROL ITEM ID	DESCRIPTION	MFR/DEV	MODEL/VERSION	CLASS	SUBCLASS
b0101414	ClearCase Server for Sun Solaris 2.4	ATR	2.0.2	software	appl-server

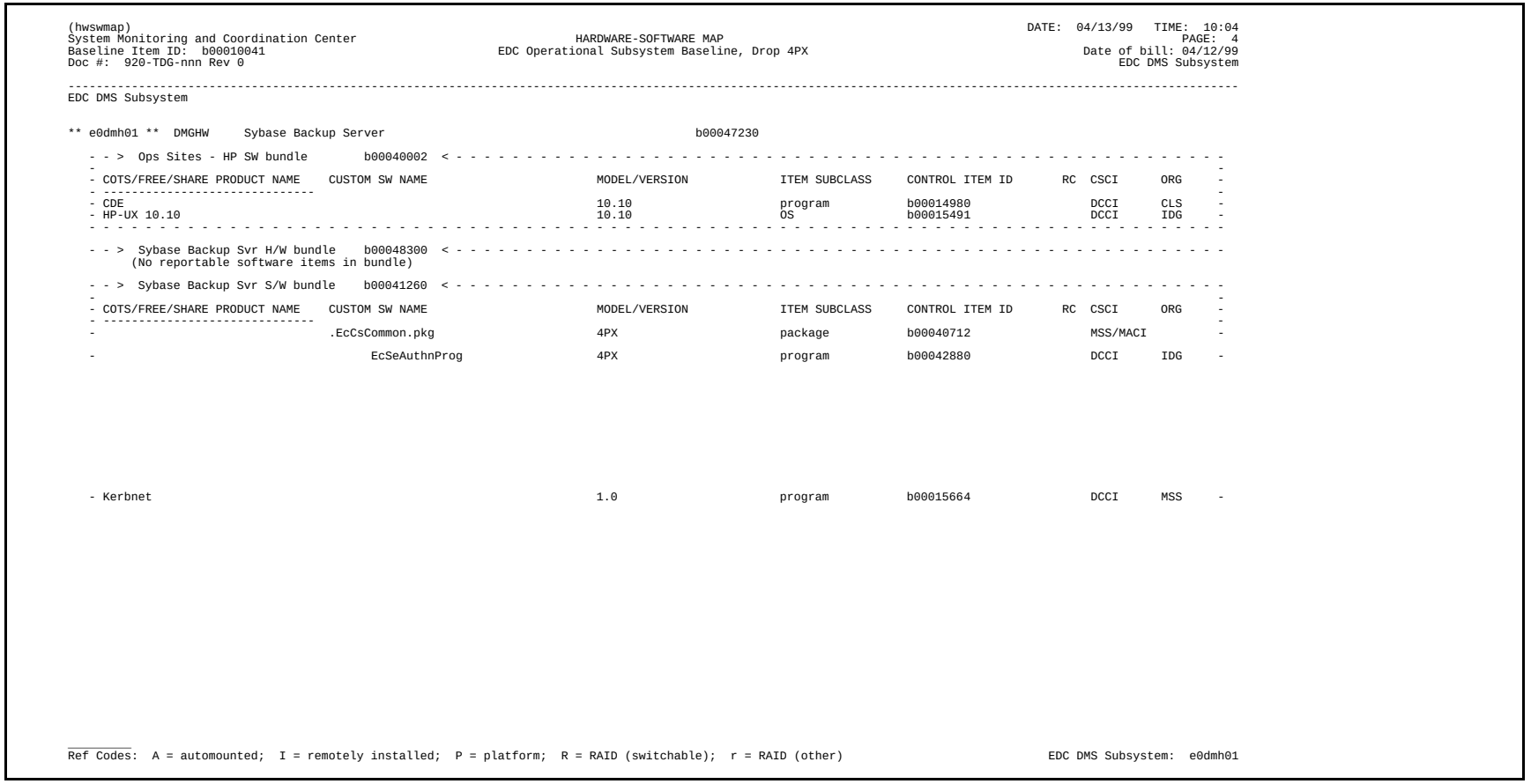
Items in b0101400 found in: b0101400
Cfg Date: 10/04/96 Cfg Date: 09/08/96

CONTROL ITEM ID	DESCRIPTION	MFR/DEV	MODEL/VERSION	CLASS	SUBCLASS
b0101410	TRMM Release of SCM	ECS	A.IT.01	design	CSC
b0101420	TRMM Release of CRM	ECS	A.IT.01	design	CSC
b0101430	TRMM Release of BM	ECS	A.IT.01	design	CSC
b0101412	Clearcase Client for Sun Solaris 2.4	ATR	2.1	software	appl-client
b0101416	ClearCase Scripts for TRMM	ATR	A.IT.01	software	appl-scripts

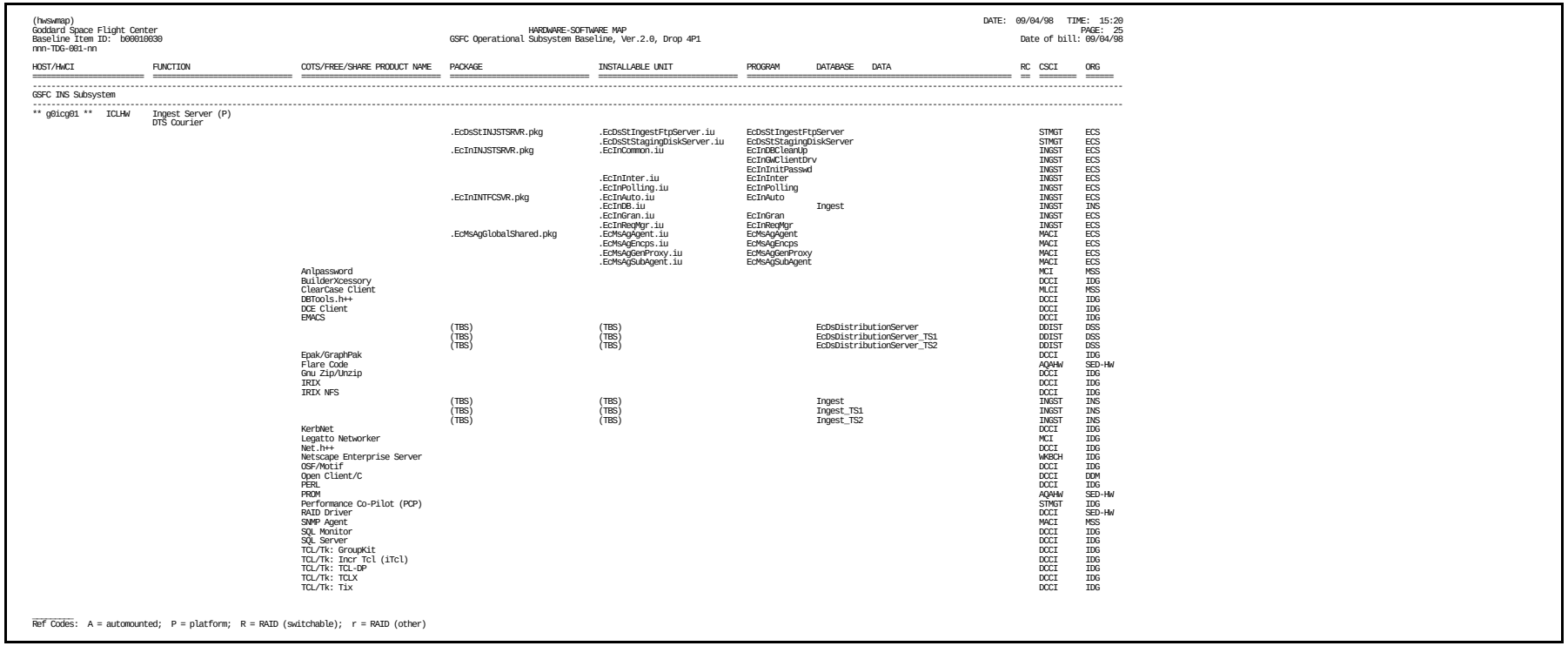
Items in b0101400 NOT found in: b0101400
Cfg Date: 10/04/96 Cfg Date: 09/08/96

CONTROL ITEM ID	DESCRIPTION	MFR/DEV	MODEL/VERSION	CLASS	SUBCLASS
b0101415	ClearCase Server for Sun Solaris 2.4	ATR	3.0	software	appl-server
		.			
		.			
		.			

Figure 4.3.3-67. BOM Comparison Report



```
(hwswmap)                                                
```

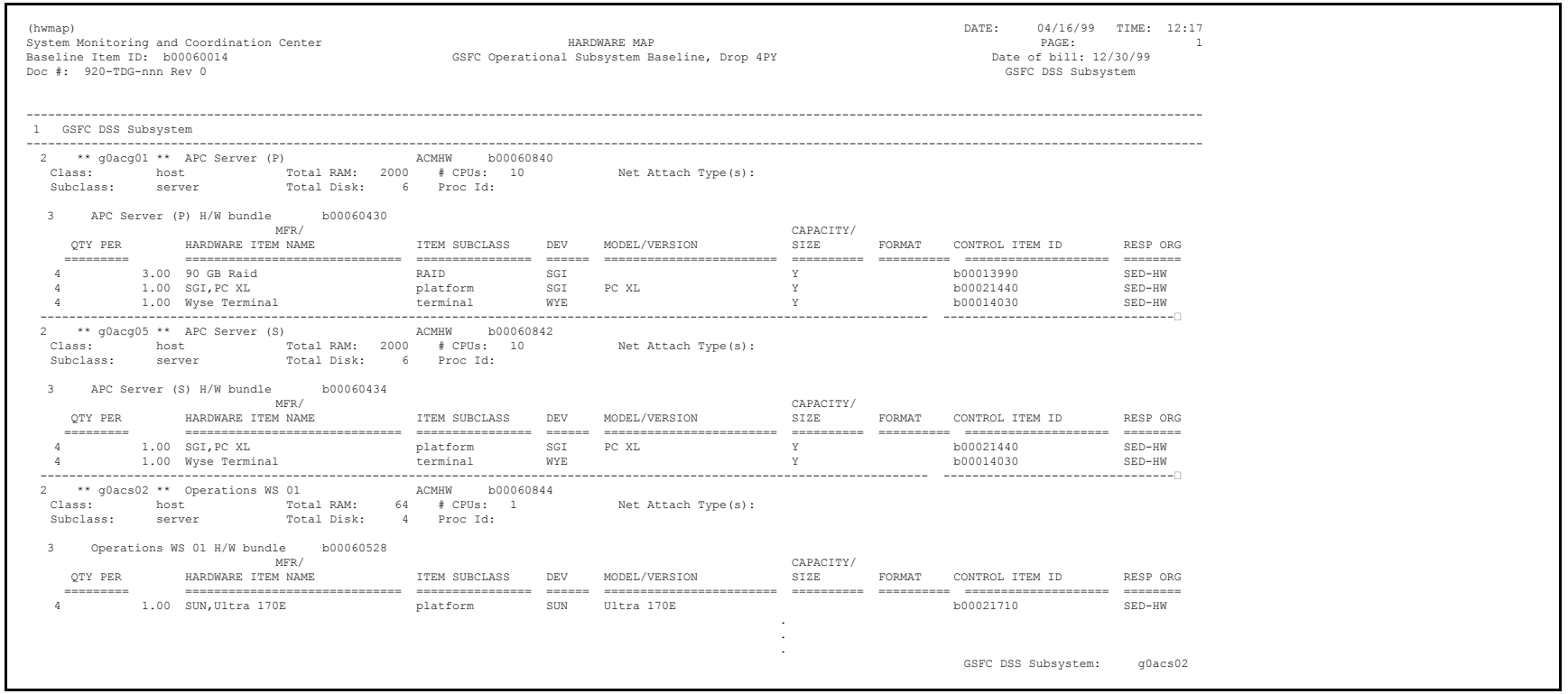


(hwswmap) DATE: 09/04/98 TIME: 15:20
Goddard Space Flight Center HARDWARE-SOFTWARE MAP PAGE: 25
Baseline Item ID: b00010030 GSFC Operational Subsystem Baseline, Ver.2.0, Drop 4P1 Date of bill: 09/04/98
nnn-TDG-001-nn

HOST/HWCI	FUNCTION	COTS/FREE/SHARE PRODUCT NAME	PACKAGE	INSTALLABLE UNIT	PROGRAM	DATABASE	DATA	RC	CSCI	ORG
GSFC INS Subsystem										
** g01cg01 ** ICLHW	Ingest Server (P) DTS Courier									
			.EcDsStINJSTSRVR.pkg	.EcDsStIngestFtpServer.iu	EcDsStIngestFtpServer				STMGT	ECS
				.EcDsStStagingDiskServer.iu	EcDsStStagingDiskServer				STMGT	ECS
			.EcInINJSTSRVR.pkg	.EcInCommon.iu	EcInDBCleanUp				INGST	ECS
					EcInGwClientDrv				INGST	ECS
					EcInInitPasswd				INGST	ECS
				.EcInInter.iu	EcInInter				INGST	ECS
				.EcInPolling.iu	EcInPolling				INGST	ECS
			.EcInINTFCSVR.pkg	.EcInAuto.iu	EcInAuto				INGST	ECS
				.EcInDB.iu		Ingest			INGST	INS
				.EcInGran.iu	EcInGran				INGST	ECS
				.EcInReqMgr.iu	EcInReqMgr				INGST	ECS
			.EcMsAgGlobalShared.pkg	.EcMsAgAgent.iu	EcMsAgAgent				MACI	ECS
				.EcMsAgEncps.iu	EcMsAgEncps				MACI	ECS
				.EcMsAgGenProxy.iu	EcMsAgGenProxy				MACI	ECS
				.EcMsAgSubAgent.iu	EcMsAgSubAgent				MACI	ECS
		Anlpassword							MCI	MSS
		BuilderXcessory							DCCI	IDG
		ClearCase Client							MLCI	MSS
		DBTools.h++							DCCI	IDG
		DCE Client							DCCI	IDG
		EMACS							DCCI	IDG
			(TBS)	(TBS)		EcDsDistributionServer			DDIST	DSS
			(TBS)	(TBS)		EcDsDistributionServer_TS1			DDIST	DSS
			(TBS)	(TBS)		EcDsDistributionServer_TS2			DDIST	DSS
		Epak/GraphPak							DCCI	IDG
		Flare Code							AQAHW	SED-HW
		Gnu Zip/Unzip							DCCI	IDG
		IRIX							DCCI	IDG
		IRIX NFS							DCCI	IDG
			(TBS)	(TBS)		Ingest			INGST	INS
			(TBS)	(TBS)		Ingest_TS1			INGST	INS
			(TBS)	(TBS)		Ingest_TS2			INGST	INS
		KerbNet							DCCI	IDG
		Legatto Networker							MCI	IDG
		Net.h++							DCCI	IDG
		Netscape Enterprise Server							WKBCH	IDG
		OSF/Motif							DCCI	IDG
		Open Client/C							DCCI	DDM
		PERL							DCCI	IDG
		PROM							AQAHW	SED-HW
		Performance Co-Pilot (PCP)							STMGT	IDG
		RAID Driver							DCCI	SED-HW
		SNMP Agent							MACI	MSS
		SQL Monitor							DCCI	IDG
		SQL Server							DCCI	IDG
		TCL/Tk: GroupKit							DCCI	IDG
		TCL/Tk: Incr Tcl (iTcl)							DCCI	IDG
		TCL/Tk: TCL-DP							DCCI	IDG
		TCL/Tk: TCLX							DCCI	IDG
		TCL/Tk: Tix							DCCI	IDG

Ref Codes: A = automounted; P = platform; R = RAID (switchable); r = RAID (other)

Figure 4.3.3-69. Hardware - Software Map Report (no bundles, no version #s)



```
(hwmap)                                                
```

(hwpatmap) DATE: 03/10/99 TIME: 18:50

System Monitoring and Coordination Center — HARDWARE-PATCH MAP — PAGE: 40

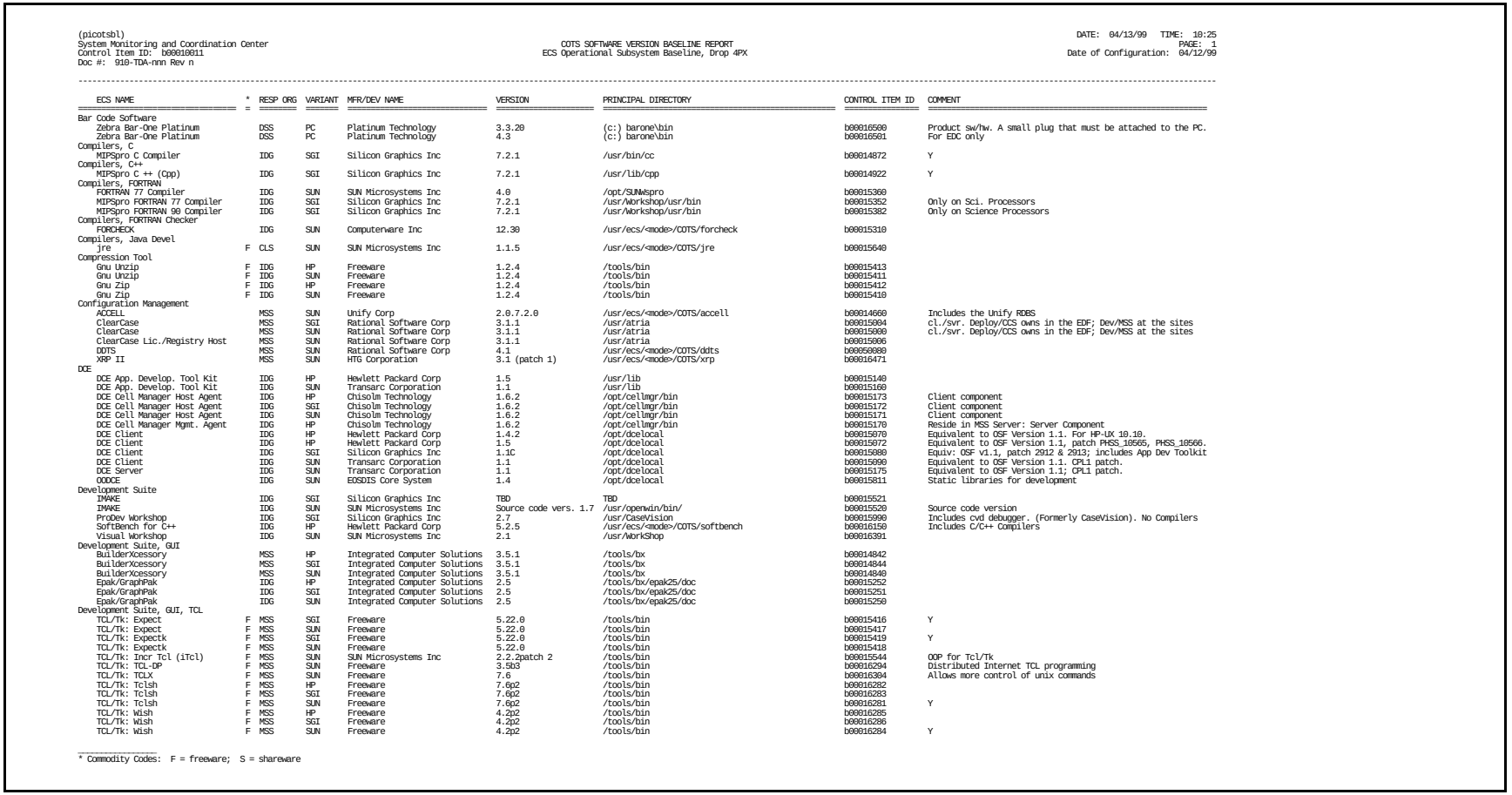
Baseline Item ID: b00010041 — EDC Operational Subsystem Baseline, Drop 4PX — Date of bill: 12/30/99

Doc #: — EDC DSS Subsystem

EDC DSS Subsystem

** e0acg01 ** ACMHW APC Server (P) b00047020

- - > APC Server (P) H/W bundle b00048110 < - - -



(picotsbl)
System Monitoring and Coordination Center
Control Item ID: b00010011
Doc #: 910-TDA-nnn Rev n

COTS SOFTWARE VERSION BASELINE REPORT
ECS Operational Subsystem Baseline, Drop 4PX

DATE: 04/13/99 TIME: 10:25
PAGE: 1
Date of Configuration: 04/12/99

ECS NAME	*	RESP ORG	VARIANT	MFR/DEV NAME	VERSION	PRINCIPAL DIRECTORY	CONTROL ITEM ID	COMMENT
Bar Code Software								
Zebra Bar-One Platinum		DSS	PC	Platinum Technology	3.3.20	(c:) barone\bin	b00016500	Product sw/hw. A small plug that must be attached to the PC.
Zebra Bar-One Platinum		DSS	PC	Platinum Technology	4.3	(c:) barone\bin	b00016501	For EDC only
Compilers, C								
MIPSpro C Compiler		IDG	SGI	Silicon Graphics Inc	7.2.1	/usr/bin/cc	b00014872	Y
Compilers, C++								
MIPSpro C ++ (Cpp)		IDG	SGI	Silicon Graphics Inc	7.2.1	/usr/lib/cpp	b00014922	Y
Compilers, FORTRAN								
FORTRAN 77 Compiler		IDG	SUN	SUN Microsystems Inc	4.0	/opt/SUNWspro	b00015360	
MIPSpro FORTRAN 77 Compiler		IDG	SGI	Silicon Graphics Inc	7.2.1	/usr/Workshop/usr/bin	b00015352	Only on Sci. Processors
MIPSpro FORTRAN 90 Compiler		IDG	SGI	Silicon Graphics Inc	7.2.1	/usr/Workshop/usr/bin	b00015382	Only on Science Processors
Compilers, FORTRAN Checker								
FORCHECK		IDG	SUN	Computerware Inc	12.30	/usr/ecs/<mode>/COTS/forcheck	b00015310	
Compilers, Java Devel								
jre	F	CLS	SUN	SUN Microsystems Inc	1.1.5	/usr/ecs/<mode>/COTS/jre	b00015640	
Compression Tool								
Gnu Unzip	F	IDG	HP	Freeware	1.2.4	/tools/bin	b00015413	
Gnu Unzip	F	IDG	SUN	Freeware	1.2.4	/tools/bin	b00015411	
Gnu Zip	F	IDG	HP	Freeware	1.2.4	/tools/bin	b00015412	
Gnu Zip	F	IDG	SUN	Freeware	1.2.4	/tools/bin	b00015410	
Configuration Management								
ACCELL		MSS	SUN	Unify Corp	2.0.7.2.0	/usr/ecs/<mode>/COTS/accell	b00014660	Includes the Unify RDBS
ClearCase		MSS	SGI	Rational Software Corp	3.1.1	/usr/atria	b00015004	cl./svr. Deploy/CCS owns in the EDF; Dev/MSS at the sites
ClearCase		MSS	SUN	Rational Software Corp	3.1.1	/usr/atria	b00015000	cl./svr. Deploy/CCS owns in the EDF; Dev/MSS at the sites
ClearCase Lic./Registry Host		MSS	SUN	Rational Software Corp	3.1.1	/usr/atria	b00015006	
DDTS		MSS	SUN	Rational Software Corp	4.1	/usr/ecs/<mode>/COTS/ddts	b00050080	
XRP II		MSS	SUN	HTG Corporation	3.1 (patch 1)	/usr/ecs/<mode>/COTS/xrp	b00016471	
DCE								
DCE App. Develop. Tool Kit		IDG	HP	Hewlett Packard Corp	1.5	/usr/lib	b00015140	
DCE App. Develop. Tool Kit		IDG	SUN	Transarc Corporation	1.1	/usr/lib	b00015160	
DCE Cell Manager Host Agent		IDG	HP	Chisolm Technology	1.6.2	/opt/cellmgr/bin	b00015173	Client component
DCE Cell Manager Host Agent		IDG	SGI	Chisolm Technology	1.6.2	/opt/cellmgr/bin	b00015172	Client component
DCE Cell Manager Host Agent		IDG	SUN	Chisolm Technology	1.6.2	/opt/cellmgr/bin	b00015171	Client component
DCE Cell Manager Mgmt. Agent		IDG	HP	Chisolm Technology	1.6.2	/opt/cellmgr/bin	b00015170	Reside in MSS Server: Server Component
DCE Client		IDG	HP	Hewlett Packard Corp	1.4.2	/opt/dcelocal	b00015070	Equivalent to OSF Version 1.1. For HP-UX 10.10.
DCE Client		IDG	HP	Hewlett Packard Corp	1.5	/opt/dcelocal	b00015072	Equivalent to OSF Version 1.1, patch PHSS_10565, PHSS_10566.
DCE Client		IDG	SGI	Silicon Graphics Inc	1.1C	/opt/dcelocal	b00015080	Equiv: OSF v1.1, patch 2912 & 2913; includes App Dev Toolkit
DCE Client		IDG	SUN	Transarc Corporation	1.1	/opt/dcelocal	b00015090	Equivalent to OSF Version 1.1. CPL1 patch.
DCE Server		IDG	SUN	Transarc Corporation	1.1	/opt/dcelocal	b00015175	Equivalent to OSF Version 1.1; CPL1 patch.
ODDCE		IDG	SUN	EOSDIS Core System	1.4	/opt/dcelocal	b00015811	Static libraries for development
Development Suite								
IMAKE		IDG	SGI	Silicon Graphics Inc	TBD	TBD	b00015521	
IMAKE		IDG	SUN	SUN Microsystems Inc	Source code vers. 1.7	/usr/openwin/bin/	b00015520	Source code version
ProDev Workshop		IDG	SGI	Silicon Graphics Inc	2.7	/usr/CaseVision	b00015090	Includes cvd debugger. (Formerly CaseVision). No Compilers
SoftBench for C++		IDG	HP	Hewlett Packard Corp	5.2.5	/usr/ecs/<mode>/COTS/softbench	b00016150	Includes C/C++ Compilers
Visual Workshop		IDG	SUN	SUN Microsystems Inc	2.1	/usr/WorkShop	b00016391	
Development Suite, GUI								
BuilderXcessory		MSS	HP	Integrated Computer Solutions	3.5.1	/tools/bx	b00014842	
BuilderXcessory		MSS	SGI	Integrated Computer Solutions	3.5.1	/tools/bx	b00014844	
BuilderXcessory		MSS	SUN	Integrated Computer Solutions	3.5.1	/tools/bx	b00014840	
Epak/GraphPak		IDG	HP	Integrated Computer Solutions	2.5	/tools/bx/epak25/doc	b00015252	
Epak/GraphPak		IDG	SGI	Integrated Computer Solutions	2.5	/tools/bx/epak25/doc	b00015251	
Epak/GraphPak		IDG	SUN	Integrated Computer Solutions	2.5	/tools/bx/epak25/doc	b00015250	
Development Suite, GUI, TCL								
TCL/Tk: Expect	F	MSS	SGI	Freeware	5.22.0	/tools/bin	b00015416	Y
TCL/Tk: Expect	F	MSS	SUN	Freeware	5.22.0	/tools/bin	b00015417	
TCL/Tk: Expectk	F	MSS	SGI	Freeware	5.22.0	/tools/bin	b00015419	Y
TCL/Tk: Expectk	F	MSS	SUN	Freeware	5.22.0	/tools/bin	b00015418	
TCL/Tk: Incr Tcl (iTcl)	F	MSS	SUN	SUN Microsystems Inc	2.2.2patch 2	/tools/bin	b00015544	OOP for Tcl/Tk
TCL/Tk: TCL-DP	F	MSS	SUN	Freeware	3.5b3	/tools/bin	b00016294	Distributed Internet TCL programming
TCL/Tk: TCLX	F	MSS	SUN	Freeware	7.6	/tools/bin	b00016304	Allows more control of unix commands
TCL/Tk: Tclsh	F	MSS	HP	Freeware	7.6p2	/tools/bin	b00016282	
TCL/Tk: Tclsh	F	MSS	SGI	Freeware	7.6p2	/tools/bin	b00016283	
TCL/Tk: Tclsh	F	MSS	SUN	Freeware	7.6p2	/tools/bin	b00016281	Y
TCL/Tk: Wish	F	MSS	HP	Freeware	4.2p2	/tools/bin	b00016285	
TCL/Tk: Wish	F	MSS	SGI	Freeware	4.2p2	/tools/bin	b00016286	
TCL/Tk: Wish	F	MSS	SUN	Freeware	4.2p2	/tools/bin	b00016284	Y

* Commodity Codes: F = freeware; S = shareware

Figure 4.3.3-72. COTS Software Version Baseline Report (control item ids)

(picotsbl)
Goddard Space Flight Center
Control Item ID: b00010050
Doc #: nnn-TDL-001-nn

COTS SOFTWARE VERSION BASELINE REPORT
LaRC Operational Subsystem Baseline, Ver.2.0, Drop 4P1

DATE: 09/04/98 TIME: 15:21
PAGE: 1
Date of Configuration: 09/04/98

FUNCTION	ECS NAME	*	RESP ORG	VARIANT	MFR/DEV NAME	VERSION	PRINCIPAL DIRECTORY	COMMENT
	EMACS		IDG	SGI	Unknown	19.13	/tools/bin/emacs	
	SNMP Agent		MSS	PC	Freeware			
	TCL/TK		IDG	SUN	<TBD>	7.6	/usr/ecs/<mode>/COTS/tcl	
Compilers, Ada	Ada 95 Compiler		IDG	SGI	Silicon Graphics Inc	1.2		(For Langley DAAC only)
Compilers, C	C Compiler		IDG	SGI	Silicon Graphics Inc	7.1	/usr/bin/cc	7.2 only on Science Processors
Compilers, C	C Compiler		IDG	SGI	Silicon Graphics Inc	7.2	/usr/bin/cc	7.2 only on Science Processors
Compilers, C	C Compiler (IRIX Devel)		IDG	SGI	Silicon Graphics Inc	6.2	/usr/bin/cc	Builds the OS kernel after AMASS installation
Compilers, C	C (SPARC Compiler)		IDG	SUN	SUN Microsystems Inc	4.0	/opt/SUNWspro	
Compilers, C++	C ++ (Cpp)		IDG	SGI	Silicon Graphics Inc	7.1	/usr/lib/cpp	7.2 only on Science Processors
Compilers, C++	C ++ (Cpp)		IDG	SGI	Silicon Graphics Inc	7.2	/usr/lib/cpp	7.2 only on Science Processors
Compilers, C++	C++ (SparcCompiler)		IDG	SUN	SUN Microsystems Inc	4.1	/opt/SUNWspro	
Compilers, FORTRAN	FORTRAN 77 Compiler		IDG	SGI	Silicon Graphics Inc	7.1	/usr/Workshop/usr/bin	
Compilers, FORTRAN	FORTRAN 77 Compiler		IDG	SGI	SUN Microsystems Inc	7.1	/usr/Workshop/usr/bin	
Compilers, FORTRAN	FORTRAN 77 Compiler		IDG	SGI	Silicon Graphics Inc	7.2	/usr/Workshop/usr/bin	7.2 only on Science Processors
Compilers, FORTRAN	FORTRAN 90 Compiler		IDG	SGI	Silicon Graphics Inc	7.1		
Compilers, FORTRAN	FORTRAN 90 Compiler		IDG	SGI	Silicon Graphics Inc	7.2		7.2 only on Science Processors
Compilers, FORTRAN	NAG90 Compiler		IDG	SGI	Numerical Algorithms Group Inc	2.2	/usr/WorkShop/usr/bin	old 32 bit only for SGI; patch ngsc522-334
Compilers, FORTRAN Checker	FORCHECK		IDG	SUN	Unknown	12.30	/usr/ecs/<mode>/COTS/forcheck	
Compilers, Java Devel	jre		CLS	SUN	SUN Microsystems Inc	1.1.5	/usr/ecs/<mode>/COTS/jre	
Compression Tool	Gnu Zip/Unzip		IDG	HP	Freeware	NA		
Compression Tool	Gnu Zip/Unzip		IDG	SGI	Freeware	NA		
Compression Tool	Gnu Zip/Unzip		IDG	SUN	Freeware	NA		
Configuration Management	ACCELL		IDG	SUN	Integrated Data Systems	2.0.7.2.0	/usr/ecs/<mode>/COTS/accell	Includes the Unify RDBS
Configuration Management	ClearCase Client		MSS	SGI	Rational Software Corp	3.1.1	/usr/atria, usr/adm/atria	cl./svr. Deploy/CCS owns in the EDF; Dev/MSS at the sites
Configuration Management	ClearCase Client		MSS	SUN	Rational Software Corp	3.1.1	/usr/atria, usr/adm/atria	cl./svr. Deploy/CCS owns in the EDF; Dev/MSS at the sites
Configuration Management	ClearCase DDTS Integration		IDG	SUN	Rational Software Corp	2.1		
Configuration Management	DDTS		IDG	SUN	Rational Software Corp	3.2.1	/usr/ecs/<mode>/COTS/ddts	
Configuration Management	XRP II		MSS	SUN	HTG Corporation	3.0	/usr/ecs/<mode>/COTS/xrp	Checked in CM
DCE	DCE Cell Manager		IDG	HP	Chisolm Technology	1.6.2	/usr/WorkShop/usr/bin	Reside in MSS Server (DCE ReplicationServer, SunSparc20)
DCE	DCE Client		IDG	HP	Hewlett Packard Corp	1.4.2	/opt/dcelocal	
DCE	DCE Client		IDG	SGI	Silicon Graphics Inc	1.16	/opt/dcelocal	
DCE	DCE Client		IDG	SUN	Transarc Corporation	1.1	/opt/dcelocal	
DCE	DCE Server		IDG	SGI	Silicon Graphics Inc	1.1	/opt/dcelocal	
DCE	DCE Server		IDG	SUN	Transarc Corporation	1.1	/opt/dcelocal	
DCE	DCE Server (Time Server only)		IDG	HP	Hewlett Packard Corp	1.4.2	/opt/dcelocal	
Development Suite	IMAKE		IDG	SUN	SUN Microsystems Inc	Source code vers. 1.7	/usr/openwin/bin/	Source code version
Development Suite	IMAKE		IDG	SUN	Silicon Graphics Inc	Source code vers. 1.7	/usr/openwin/bin/	
Development Suite	ProDev Workshop		IDG	SGI	Silicon Graphics Inc	2.6.2		Includes cvd debugger. (Formerly CaseVision)
Development Suite	SoftBench for C++		IDG	HP	Hewlett Packard Corp	5.0.3	/usr/ecs/<mode>/COTS/softbench	
Development Suite	Visual Workshop		IDG	SUN	SUN Microsystems Inc	1.1		(formerly SparcWorks, TeamWare, Impact, C, C++)
Development Suite, GUI	BuilderXcessory		IDG	HP	Integrated Computer Solutions	3.5.1	/tools/bx	
Development Suite, GUI	BuilderXcessory		IDG	SGI	Integrated Computer Solutions	3.5.1	/tools/bx	
Development Suite, GUI	BuilderXcessory		IDG	SUN	Integrated Computer Solutions	3.5.1	/tools/bx	
Development Suite, GUI	Epak/GraphPak		IDG		Integrated Computer Solutions	2.5	/tools/bx/epak	
Development Suite, GUI, TCL	TCL/Tk			SUN	<TBD>	4.1		
Development Suite, GUI, TCL	TCL/Tk: Incr Tcl (iTcl)		IDG	HP	SUN Microsystems Inc	2.2.2patch 2		OOP for Tcl/Tk
Development Suite, GUI, TCL	TCL/Tk: Incr Tcl (iTcl)		IDG	SGI	SUN Microsystems Inc	2.2.2patch 2		OOP for Tcl/Tk
Development Suite, GUI, TCL	TCL/Tk: Incr Tcl (iTcl)		IDG	SUN	SUN Microsystems Inc	2.2.2patch 2		OOP for Tcl/Tk
Development Suite, GUI, TCL	TCL/Tk: TCL-DP		IDG	HP	<TBD>	3.5b3		Distributed Internet TCL programming
Development Suite, GUI, TCL	TCL/Tk: TCL-DP		IDG	SGI	<TBD>	3.5b3		Distributed Internet TCL programming
Development Suite, GUI, TCL	TCL/Tk: TCL-DP		IDG	SUN	<TBD>	3.5b3		Distributed Internet TCL programming
Development Suite, GUI, TCL	TCL/Tk: TCLX		IDG	HP	<TBD>	7.6	/usr/ecs/<mode>/COTS/tcl	Allows more control of unix commands
Development Suite, GUI, TCL	TCL/Tk: TCLX		IDG	SGI	<TBD>	7.6	/usr/ecs/<mode>/COTS/tcl	Allows more control of unix commands
Development Suite, GUI, TCL	TCL/Tk: TCLX		IDG	SUN	<TBD>	7.6	/usr/ecs/<mode>/COTS/tcl	Allows more control of unix commands
Development Suite, GUI, TK	TCL/Tk: GroupKit		IDG	HP	<TBD>	4.3.3		Real-Time Processing
Development Suite, GUI, TK	TCL/Tk: GroupKit		IDG	SGI	<TBD>	4.3.3		Real-Time Processing
Development Suite, GUI, TK	TCL/Tk: GroupKit		IDG	SUN	<TBD>	4.3.3		Real-Time Processing
Development Suite, GUI, TK	TCL/Tk: Tix		IDG	HP	<TBD>	4.1.0		Library for over 40 mega widgets
Development Suite, GUI, TK	TCL/Tk: Tix		IDG	SGI	<TBD>	4.1.0		Library for over 40 mega widgets
Development Suite, GUI, TK	TCL/Tk: Tix		IDG	SUN	<TBD>	4.1.0		Library for over 40 mega widgets
Development Suite, GUI, TK	TCL/Tk: TkTree		IDG	HP	<TBD>	4.1		Widget for displaying dynamic trees
Development Suite, GUI, TK	TCL/Tk: TkTree		IDG	SGI	<TBD>	4.1		Widget for displaying dynamic trees
Development Suite, GUI, TK	TCL/Tk: TkTree		IDG	SUN	<TBD>	4.1		Widget for displaying dynamic trees
Disk/Volume Manager	Veritas		SED-HW	SUN	SUN Microsystems Inc	TBD		
Document Generation	Microsoft Office Professional		IDG	SUN	Microsoft Corp.	7.0		
Document Generation	WABI		IDG	SUN	Unknown	2.2	/opt/SUNWwabi/bin	
Editing & Viewing	EMACS		IDG	HP	Unknown	19.13	/tools/bin/emacs	Freeware checked through ClearCase

* Commodity Codes: F = freeware; S = shareware

Figure 4.3.3-73. COTS Software Version Baseline Report (no control item ids)

(sitehost) DATE: 09/04/98 TIME: 15:25

Goddard Space Flight Center SITE-HOST MAP REPORT PAGE: 1

Control Item ID: b00010010 ECS Operational Subsystem Baseline, Ver.2.0, Drop 4P1 Date of configuration: 09/04/98

nnn-TDA-001-nn

SUBSYSTEM	SRC CI	HOST FUNCTION	EDC	GSFC	LaRC	NSIDC	SMC
AST Subsystem	ASTHW	ASTER DEM Workstation	e0ass03				
AST Subsystem	ASTHW	ASTER LUT Database Server 01	e0ass01				
AST Subsystem	ASTHW	ASTER LUT Database Server 02	e0ass02				
Communications Subsystem	DCHCI	Bulletin Board Server					m0css02
Communications Subsystem	DCHCI	CSS Server	e0css02	g0css02	l0css02	n0css02	m0css03
Communications Subsystem	DCHCI	FTP Server 01					m0css05
Communications Subsystem	DCHCI	FTP Server 02					m0css04
DMS Subsystem	AITHW	AIT Workstation/DBMS Server				n0ais01	
DMS Subsystem	AQAHW	QA Workstation 02				n0spg01	
DMS Subsystem	AQAHW	QA Workstation 03				n0spg02	
DMS Subsystem	INTHW	Interface Server (P)	e0ins02	g0ins02	l0ins02	n0ins02	
DMS Subsystem	INTHW	Interface Server (S)	e0ins01	g0ins01	l0ins01	n0ins01	
Data Mgmt Subsystem	DMGHW	DBA Operations Workstation	e0dmh02	g0dmh01	l0dmh02	n0dmh02	
Data Mgmt Subsystem	DMGHW	Data Spec Workstation 01	e0dms03	g0dms03	l0dms01	n0dms03	
Data Mgmt Subsystem	DMGHW	Data Spec Workstation 02	e0dms04	g0dms04	l0dms04	n0dms04	
Data Mgmt Subsystem	DMGHW	Data Spec Workstation 03		g0dms05	l0dms05		
Data Mgmt Subsystem	DMGHW	Sybase Backup Server	e0dmh01	g0dmh02	l0dmh03	n0dmh01	
Data Process Subsystem	AITHW	AIT Workstation	e0ais02	g0ais05	l0ais09		
Data Process Subsystem	AITHW	AIT Workstation/DBMS Server		g0ais01	l0ais01		
Data Process Subsystem	AITHW	SSI&T AIT Server	esais01	gsais01			
Data Process Subsystem	SPRHW	Queuing Server	e0sps04	g0sps06	l0sps03	n0sps08	
Data Process Subsystem	SPRHW	Science Processor 01	e0spg01	g0spg01	l0spg01	n0spg03	
Data Process Subsystem	SPRHW	Science Processor 02			l0spg05	n0spg09	
Data Process Subsystem	SPRHW	Science Processor 03	e0spg05	g0spg07	l0spg06		
Data Server Subsystem	ACMHW	APC Server (P)	e0acg01	g0acg01	l0acg02	n0acg01	
Data Server Subsystem	ACMHW	APC Server (S)	e0acg02	g0acg05	l0acg05	n0acg02	
Data Server Subsystem	ACMHW	EMASS Manager 01		g0drp05			
Data Server Subsystem	ACMHW	Operations WS 01	e0acs03	g0acs02	l0acs01	n0acs03	
Data Server Subsystem	ACMHW	Operations WS 02	e0acs04	g0acs06	l0acs06	n0acs06	
Data Server Subsystem	ACMHW	SDSRV Server (P)	e0acs05	g0acs03	l0acs03	n0acs04	
Data Server Subsystem	ACMHW	SDSRV Server (S)	e0acs06	g0acs04	l0acs04	n0acs05	
Data Server Subsystem	AITHW	AIT Workstation/DBMS Server	e0ais03				
Data Server Subsystem	AQAHW	Disk/RAID Driver	e0aqg01	g0aqg01	l0aqg02		
Data Server Subsystem	AQAHW	QA Workstation 01	e0aqg02	g0aqg02	l0aqg01		
Data Server Subsystem	DIPHW	Distribution Server (P)	e0dis02	g0dis02	l0dis02	n0dis02	
Data Server Subsystem	DIPHW	Distribution Server (S)	e0dis01	g0dis01	l0dis01	n0dis01	
Data Server Subsystem	DIPHW	Scanner Host PC	e0dip05	g0dip03	l0dip03	n0dip04	
Data Server Subsystem	DRPHW	ACSLS Workstation 01	e0drs03	g0drs03	l0drs02	n0drs03	

Figure 4.3.3-74. Site-Host - Map Report

(basedoc1)
System Monitoring and Coordination Center
Control Item ID: b00010020
Doc #: 910-TDA-nnn, Rev n

BASELINED DOCUMENTS (TITLE ORDER) REPORT
ECS Product Baseline, Ver.2.0, Drop 4P1

DATE: 04/13/99 TIME: 10:23
PAGE: 1
Date of Configuration: 12/31/98

TITLE	DOCUMENT NUMBER	CONTROL ITEM ID	ISSUE	MFR/DEV	PUB DATE	REPOSITORY	FORMAT	COMMENT
AIT Server Disk Partitions	922-TDE-021-00	b00022030		ECS	03/03/98	ECS Baseline Home Page	.ppt	
AIT Server Disk Partitions	922-TDL-021-00	b00022040		ECS	05/05/98	ECS Baseline Home Page	.ppt	
APC Server Disk Partitions	922-TDE-001-00	b00022060		ECS	12/04/97	ECS Baseline Home Page	.ppt	
APC Server Disk Partitions	922-TDG-001-00	b00019720		ECS	09/05/97	ECS Baseline Home Page	.ppt	
APC Server Disk Partitions	922-TDL-001-00	b00022070		ECS	12/09/97	ECS Baseline Home Page	.ppt	
AQA Host Disk Partitions	922-TDG-003-00	b00019730		ECS	03/04/97	ECS Baseline Home Page	.ppt	
AQA Host Disk Partitions	922-TDL-003-00	b00022090		ECS	06/11/97	ECS Baseline Home Page	.ppt	
Access Control Lists	910-TDA-006-00	b00019460		ECS	03/03/98	ECS Baseline Home Page	.doc	
Accounts	910-TDA-011-00	b00019490		ECS	06/26/98	ECS Baseline Home Page	.doc	
Build Plan (4P and 4P1)	N/A	b00019940		ECS	06/30/98	ECS Baseline Home Page	.doc	No doc number assigned by CM
COTS License Mapping	910-TDA-tbd	b00019510		ECS	**/**/**	TBD	TBD	Publication date TBD
CSS Server Disk Partitions	922-TDE-005-00	b00022170		ECS	02/18/97	ECS Baseline Home Page	.pdf	
CSS Server Disk Partitions	922-TDG-005-00	b00019740		ECS	04/03/97	ECS Baseline Home Page	.pdf	
CSS Server Disk Partitions	922-TDL-005-00	b00022180		ECS	04/03/97	ECS Baseline Home Page	.pdf	
Cable Management Plan	920-TDE-005-05	b00022120		ECS	01/23/98	ECS Baseline Home Page	.pdf	
Cable Management Plan	920-TDG-005-04	b00019590		ECS	04/20/98	ECS Baseline Home Page	.pdf	
Cable Management Plan	920-TDL-005-01	b00022130		ECS	02/17/98	ECS Baseline Home Page	.pdf	
Core Metadata Model	420-TP-015-02	b00019440		ECS	05/24/98	ECS Data Handling system	.doc	
DIP Server #2 Disk Partitions	922-TDE-019-01	b00022240		ECS	05/06/98	ECS Baseline Home Page	.ppt	
DIP Server #2 Disk Partitions	922-TDG-019-01	b00019860		ECS	12/03/97	ECS Baseline Home Page	.ppt	
DIP Server #2 Disk Partitions	922-TDL-019-00	b00022250		ECS	12/09/97	ECS Baseline Home Page	.ppt	
DIP Server Disk Partitions	922-TDE-006-02	b00022270		ECS	05/05/98	ECS Baseline Home Page	.ppt	
DIP Server Disk Partitions	922-TDG-006-01	b00019750		ECS	12/31/97	ECS Baseline Home Page	.ppt	
DIP Server Disk Partitions	922-TDL-006-00	b00022280		ECS	12/09/97	ECS Baseline Home Page	.ppt	
DRP Server Disk Partitions	922-TDE-007-02	b00022320		ECS	03/03/98	ECS Baseline Home Page	.ppt	
DRP Server Disk Partitions	922-TDG-007-00	b00019760		ECS	12/23/97	ECS Baseline Home Page	.ppt	
DRP Server Disk Partitions	922-TDL-007-00	b00022330		ECS	12/09/97	ECS Baseline Home Page	.ppt	
Database Design and Database Schema Specifications	311-CD-10x-0x	b00019410		ECS	06/11/98	ECS Data Handling System	.doc	
Databases Configuration Listing	920-TDG-010	b00019620		ECS	**/**/**	TBD	TBD	Publication date TBD
Delivered Archive Data	TBD	b00019950		ECS	**/**/**	TBD	TBD	Document not yet available
Descriptor File Template	916-TDA-001-01	b00019550		ECS	02/13/98	ECS Baseline Home Page	.doc	
Directory Structures	910-TDA-009-01	b00019480		ECS	06/12/98	ECS Baseline Home Page	.ppt	
Drop 4 P1 Domains and Baseline Data	910-TDA-015-00	b00019500		ECS	07/01/98	ECS Baseline Home Page	.xls	
Dual-Homed Host Static Routes	921-TDG-005-00	b00019700		ECS	10/22/97	ECS Baseline Home Page	.xls	
ECS Domain Name Server Data File Content	923-TDE-0xx	b00022360		ECS	04/24/98	ECS Baseline Home Page	.doc	
ECS Domain Name Server Data File Content	923-TDG-0xx	b00019870		ECS	04/24/98	ECS Baseline Home Page	.doc	
ECS Domain Name Server Data File Content	923-TDL-0xx	b00022370		ECS	04/24/98	ECS Baseline Home Page	.doc	
ECS Domain Name Service Structure	913-TDA-001-00	b00019530		ECS	04/24/98	ECS Baseline Home Page	.ppt	
ECS Internal ICDs	313-CD-006-04	b00019420		ECS	05/29/98	ECS Data Handling System	.doc	
ECS Overall System Acceptance Test Procedures	411-CD-002-01	b00019430		ECS	09/20/96	ECS Data Handling System	.doc	Latest version published on Web
ECS Overall System Acceptance Test Report	412-CD-10x-0x	b00019930		ECS	**/**/**	TBD	TBD	Document to be available at RRR
ESDT Definition	N/A	b00019960		ECS	**/**/**	ECS RTM Home Page	TBD	No doc number assigned by CM
ESDT To Volume Group Mapping	920-TDG-tbd	b00019650		ECS	**/**/**	TBD	TBD	Document not yet available
Engineering Records	910-TDA-tbd	b00019520		ECS	**/**/**	TBD	TBD	Document not yet available
Floor Plan	920-TDE-004-01	b00022460		ECS	01/23/98	ECS Baseline Home Page	.pdf	
Floor Plan	920-TDG-004-05	b00019580		ECS	06/06/98	ECS Baseline Home Page	.pdf	
Floor Plan	920-TDL-004-01	b00022470		ECS	11/24/97	ECS Baseline Home Page	.pdf	
Hardware Network Diagram	921-TDE-002-05	b00022490		ECS	01/30/98	ECS Baseline Home Page	.pdf	
Hardware Network Diagram	921-TDG-002-04	b00019670		ECS	01/30/98	ECS Baseline Home Page	.pdf	
Hardware Network Diagram	921-TDL-002-03	b00022500		ECS	01/30/98	ECS Baseline Home Page	.pdf	
Host IP Assignments	921-TDG-003-03	b00022530		ECS	10/22/97	ECS Baseline Home Page	.pdf	
Host IP Assignments	921-TDG-003-04	b00019680		ECS	10/22/97	ECS Baseline Home Page	.pdf	
Host IP Assignments	921-TDG-003-05	b00022520		ECS	10/22/97	ECS Baseline Home Page	.pdf	
I/O Ports	910-TDA-002-02	b00019450		ECS	05/08/98	ECS Baseline Home Page	.doc	
ICL Server Disk Partitions	922-TDE-008-01	b00022560		ECS	07/23/98	ECS Baseline Home Page	.ppt	
ICL Server Disk Partitions	922-TDG-008-01	b00019770		ECS	07/23/98	ECS Baseline Home Page	.ppt	
ICL Server Disk Partitions	922-TDL-008-01	b00022570		ECS	07/23/98	ECS Baseline Home Page	.ppt	
Ingest Host Static Routes	921-TDE-006-01	b00022590		ECS	10/22/97	ECS Baseline Home Page	.xls	
Ingest Host Static Routes	921-TDG-006-00	b00019710		ECS	10/22/97	ECS Baseline Home Page	.xls	
Ingest Host Static Routes	921-TDL-006-00	b00022600		ECS	10/22/97	ECS Baseline Home Page	.xls	
Interface Server Disk Partitions	922-TDE-009-01	b00022620		ECS	03/03/98	ECS Baseline Home Page	.ppt	
Interface Server Disk Partitions	922-TDG-009-00	b00019780		ECS	12/23/97	ECS Baseline Home Page	.ppt	
Interface Server Disk Partitions	922-TDL-009-00	b00022630		ECS	12/09/97	ECS Baseline Home Page	.ppt	
MSS File-CM Server Disk Partitions	922-TDE-011-01	b00022680		ECS	03/03/98	ECS Baseline Home Page	.pdf	

Figure 4.3.3-75. Baselined Documents (Title Order) Report

(basedoc2) DATE: 04/13/99 TIME: 10:23

System Monitoring and Coordination Center — BASELINED DOCUMENTS (NUMBER ORDER) REPORT — PAGE: 1

Control Item ID: b00010020 — ECS Product Baseline, Ver.2.0, Drop 4P1 — Date of Configuration: 12/31/98

Doc #: 910-TDA-nnn, Rev n

DOCUMENT NUMBER	TITLE	CONTROL ITEM ID	ISSUE	MFR/DEV	PUB DATE	REPOSITORY	FORMAT	COMMENT
220-WP-003-01	V2.0 Baseline Deployment Plan	b00019395		ECS	03/15/98	ECS Data Handling System	.doc	
305-CD-100-02	Segment/Design Specifications	b00019400		ECS	05/29/98	ECS Data Handling System	.doc	Final version: 11/09/98
311-CD-10x-0x	Database Design and Database Schema Specifications	b00019410		ECS	06/11/98	ECS Data Handling System	.doc	
313-CD-006-04	ECS Internal ICDs	b00019420		ECS	05/29/98	ECS Data Handling System	.doc	
411-CD-002-01	ECS Overall System Acceptance Test Procedures	b00019430		ECS	09/20/96	ECS Data Handling System	.doc	Latest version published on Web
412-CD-10x-0x	ECS Overall System Acceptance Test Report	b00019930		ECS	**/**/**	TBD	TBD	Document to be available at RRR
420-TP-015-02	Core Metadata Model	b00019440		ECS	05/24/98	ECS Data Handling system	.doc	
910-TDA-002-02	I/O Ports	b00019450		ECS	05/08/98	ECS Baseline Home Page	.doc	
910-TDA-006-00	Access Control Lists	b00019460		ECS	03/03/98	ECS Baseline Home Page	.doc	
910-TDA-007-01	Program Register	b00019470		ECS	05/14/98	ECS Baseline Home Page	.doc	
910-TDA-009-01	Directory Structures	b00019480		ECS	06/12/98	ECS Baseline Home Page	.ppt	
910-TDA-011-00	Accounts	b00019490		ECS	06/26/98	ECS Baseline Home Page	.doc	
910-TDA-015-00	Drop 4 P1 Domains and Baseline Data	b00019500		ECS	07/01/98	ECS Baseline Home Page	.xls	
910-TDA-tbd	COTS License Mapping	b00019510		ECS	**/**/**	TBD	TBD	Publication date TBD
910-TDA-tbd	Engineering Records	b00019520		ECS	**/**/**	TBD	TBD	Document not yet available
913-TDA-001-00	ECS Domain Name Service Structure	b00019530		ECS	04/24/98	ECS Baseline Home Page	.ppt	
915-TDA-001-00	System Startup/Shutdown procedures Common	b00019540		ECS	**/**/**	TBD	TBD	Document not yet available
916-TDA-001-01	Descriptor File Template	b00019550		ECS	02/13/98	ECS Baseline Home Page	.doc	
920-TDE-003-00	System Infrastructure	b00023020		ECS	05/16/97	ECS Baseline Home Page	.doc	
920-TDE-004-01	Floor Plan	b00022460		ECS	01/23/98	ECS Baseline Home Page	.pdf	
920-TDE-005-05	Cable Management Plan	b00022120		ECS	01/23/98	ECS Baseline Home Page	.pdf	
920-TDE-007-00	Vendor Documentation	b00023190		ECS	11/15/97	ECS Baseline Home Page	.xls	
920-TDE-008-05	Mount Points	b00022650		ECS	01/21/98	ECS Baseline Home Page	.pdf	
920-TDE-011	Sybase Logging Mapping	b00022960		ECS	**/**/**	TBD	TBD	Not available on the Web
920-TDE-012-00	SCSI Cable Management Plan	b00022880		ECS	01/27/98	ECS Baseline Home Page	.doc	
920-TDG-003-00	System Infrastructure	b00019570		ECS	05/22/97	ECS Baseline Home Page	.doc	
920-TDG-004-05	Floor Plan	b00019580		ECS	06/06/98	ECS Baseline Home Page	.pdf	
920-TDG-005-04	Cable Management Plan	b00019590		ECS	04/20/98	ECS Baseline Home Page	.pdf	
920-TDG-007-00	Vendor Documentation	b00019600		ECS	10/10/97	ECS Baseline Home Page	.xls	
920-TDG-008-05	Mount Points	b00019610		ECS	**/**/**	ECS Baseline Home Page	.pdf	
920-TDG-008-06	Mount Points	b00022640		ECS	01/21/98	ECS Baseline Home Page	.pdf	
920-TDG-010	Databases Configuration Listing	b00019620		ECS	**/**/**	TBD	TBD	Publication date TBD
920-TDG-011	Sybase Logging Mapping	b00019630		ECS	**/**/**	TBD	TBD	Not available on the Web
920-TDG-012-02	SCSI Cable Management Plan	b00019640		ECS	02/17/98	ECS Baseline Home Page	.doc	
920-TDG-tbd	ESDT To Volume Group Mapping	b00019650		ECS	**/**/**	TBD	TBD	Document not yet available
920-TDL-003-00	System Infrastructure	b00023030		ECS	05/16/97	ECS Baseline Home Page	.doc	
920-TDL-004-01	Floor Plan	b00022470		ECS	11/24/97	ECS Baseline Home Page	.pdf	
920-TDL-005-01	Cable Management Plan	b00022130		ECS	02/17/98	ECS Baseline Home Page	.pdf	
920-TDL-007-00	Vendor Documentation	b00023200		ECS	02/17/98	ECS Baseline Home Page	.xls	
920-TDL-008-03	Mount Points	b00022660		ECS	01/21/98	ECS Baseline Home Page	.pdf	
920-TDL-011	Sybase Logging Mapping	b00022970		ECS	**/**/**	TBD	TBD	Not available on the Web
920-TDL-012-00	SCSI Cable Management Plan	b00022890		ECS	02/17/98	ECS Baseline Home Page	.doc	
921-TDE-002-05	Hardware Network Diagram	b00022490		ECS	01/30/98	ECS Baseline Home Page	.pdf	
921-TDE-004-02	Network IP Assignments	b00022740		ECS	10/22/97	ECS Baseline Home Page	.xls	
921-TDE-006-01	Ingest Host Static Routes	b00022590		ECS	10/22/97	ECS Baseline Home Page	.xls	
921-TDG-001-00	Network Overview Diagram [LAN Topology]	b00019660		ECS	11/26/97	ECS Baseline Home Page	.ppt	
921-TDG-002-04	Hardware Network Diagram	b00019670		ECS	01/30/98	ECS Baseline Home Page	.pdf	
921-TDG-003-03	Host IP Assignments	b00022530		ECS	10/22/97	ECS Baseline Home Page	.pdf	
921-TDG-003-04	Host IP Assignments	b00019680		ECS	10/22/97	ECS Baseline Home Page	.pdf	
921-TDG-003-05	Host IP Assignments	b00022520		ECS	10/22/97	ECS Baseline Home Page	.pdf	
921-TDG-004-00	Network IP Assignments	b00019690		ECS	10/22/97	ECS Baseline Home Page	.xls	
921-TDG-005-00	Dual-Homed Host Static Routes	b00019700		ECS	10/22/97	ECS Baseline Home Page	.xls	
921-TDG-006-00	Ingest Host Static Routes	b00019710		ECS	10/22/97	ECS Baseline Home Page	.xls	
921-TDL-002-03	Hardware Network Diagram	b00022500		ECS	01/30/98	ECS Baseline Home Page	.pdf	
921-TDL-004-00	Network IP Assignments	b00022750		ECS	10/22/97	ECS Baseline Home Page	.xls	
921-TDL-006-00	Ingest Host Static Routes	b00022600		ECS	10/22/97	ECS Baseline Home Page	.xls	
922-TDE-001-00	APC Server Disk Partitions	b00022060		ECS	12/04/97	ECS Baseline Home Page	.ppt	
922-TDE-005-00	CSS Server Disk Partitions	b00022170		ECS	02/18/97	ECS Baseline Home Page	.pdf	
922-TDE-006-02	DIP Server Disk Partitions	b00022270		ECS	05/05/98	ECS Baseline Home Page	.ppt	
922-TDE-007-02	DRP Server Disk Partitions	b00022320		ECS	03/03/98	ECS Baseline Home Page	.ppt	
922-TDE-008-01	ICL Server Disk Partitions	b00022560		ECS	07/23/98	ECS Baseline Home Page	.ppt	
922-TDE-009-01	Interface Server Disk Partitions	b00022620		ECS	03/03/98	ECS Baseline Home Page	.ppt	
922-TDE-010-00	MSS Server Disk Partitions	b00022710		ECS	04/02/97	ECS Baseline Home Page	.ppt	
922-TDE-011-01	MSS File-CM Server Disk Partitions	b00022680		ECS	03/03/98	ECS Baseline Home Page	.pdf	

Figure 4.3.3-76. Baselined Documents (Number Order) Report

This page intentionally left blank.

4.3.4 XRP-II (Inventory, Logistics and Maintenance Manager {ILM})

ILM helps the M&O staff at the DAACs, EOC, and SMC to maintain records that describe all inventory components and their assembly structures and interdependencies. The database maintained by this tool, keeps chronological histories (a record of the transactions) of receipt, installation, and relocation of inventory items. ILM limits DAAC staff to accessing only those records which correspond to equipment at their DAAC.

ILM is a set of automated tools that will assist the Procurement, Property Management, Maintenance, and Logistics teams in managing the tangible property of NASA's EOSDIS project. ILM is a heavily customized application developed utilizing the commercially available package XRP-II (Product Information and Inventory Management Modules). XRP-II is a manufacturing management system and its customization supports the required capabilities and functions of ECS. The application contains other functions beside the ILM tools. The ECS Management System Main Menu has selections for the Baseline Management tool which is not part of ILM. This menu also has selections for functions that are reserved for system administrators.

XRP-II is a legacy based application. The application consists of a hierarchical menu screen structure and an imbedded COTS database (UNIFY). The hierarchical menu structure is built upon character oriented, mainframe computer terminal screens. The vendor has customized the original screens to be ECS specific. The menu screens must be navigated to reach the appropriate ILM function. The lowest level of the structure is a function data screen that displays data and/or accepts data input for the function selected through the menu navigation process. The database provides a transaction oriented environment for data input and modification. While an operator is logged into the XRP-II program he is engaged in a database session.

Use of the ILM tool involves considerations of the ECS business rules and general logistics concepts as applied on the ECS project. The tool is designed to incorporate these considerations as part of the navigation process and functional capabilities of the tool. This document does not include a discussion of these considerations. For a complete understanding of the ILM functions the operators will have to familiarize themselves with these topics. Some basic logistics definitions are provided below.

Each inventory item is identified by a unique Equipment Inventory Number (EIN), and in case of hardware items a physical silver sticker with the EIN is placed on the item. The most significant relationship maintained among inventory items is product structure. Product structure is the XRP-II term for the parent-component pairings that define the ingredients – or bill of material -- for an assembly. Product structures have corresponding active and inactive dates that establish the timeframe during which the pairing is in effect, and they can reference Work Orders. XRP-II's Work Order capabilities enable product structure changes to be grouped, reported, checked, and approved before they go into effect. They also facilitate tracking control item changes by a related configuration change request and/or trouble ticket. Sections 1.6.2 and 4.1 of the *XRP-II Product Information Manual* discuss product structures in more detail.

Table 4.3.4-1 summarizes the operator functions supported. The sections that follow present how to use the customized features of ILM. Each user/operator is assigned to a work group and the

ILM menu options available are controlled based on the individual's role. The following roles currently exist within ILM:

- ilmadmin All functions within the ILM
- ilmlog ILM Logistics User
- ilmmaint ILM Maintenance User
- ilmquery ILM User with query privileges only
- ilmmntd ILM Maintenance User at a DAAC
- ilmupdt ILM User with update privileges only
- ilmuser All ILM functions except ILM system administration privileges.
- Additionally there is an XRP administrator (xrpadm) who will have all privileges and is responsible for the operation of the XRP application.
- There are separate manuals describing the functions of the XRP and ILM administrators. These administrators may use functions in the System Utilities Menu or Systems Tools selections from the ECS Management System Main Menu.
- Customization of individual operator privileges is done on an as needed basis by an ILM system Administrator. The system tools provide the functions to revise the users privileges.

Table 4.3.4-1. Common ECS Operator Functions Performed with ILM

Operating Function	Character-based User Interface	Description	When and Why to Use
ILM tool selection	ILM Main Menu from ECS Management System	After the user has logged into XRP-11 (see section 4.3.4.1) based on the user's role, the starting menu will be presented. In this summary, the functions available and the order of menu presentation is defined for the user with the authorization to perform all of ILM functions.	To perform any of ILM functions for property management, inventory ordering, purchase order processing, property maintenance, or system management configuration.
Property Management	EIN Menu, EIN Transactions, or ILM Report Menu from ILM Main Menu	Maintain information for property items, their structure and inter-relationship.	Entering information for new items, modifying information, defining and maintaining the structure of the properties that are composites (bill of material), installation and relocation of property.
Inventory Ordering	Inventory Ordering Menu from ILM Main Menu	Define and manage ordering information for the inventory items.	Establish order point and monitory inventory levels.
Purchase Order Processing	PO / Receiving Menu from ILM Main Menu	Purchase order preparation and monitoring receipt of inventory items.	Generate purchase order and record receipt of inventory.
Property Maintenance	Maintenance Menu from ILM Main Menu	Manage information for required repairs and preventive maintenance.	Predefine scheduled maintenance, recording and monitory
ILM Configuration	ILM Master Menu from ILM Main Menu	Manage configuration information for ILM.	ILM administrative function to define and maintain parameters required by ILM, maintain user information, export and import ILM information.

General Information

Using XRP

- The XRP application is case sensitive. It interprets data exactly as it is entered and takes the case of your input string into account. If something is in UPPER CASE, follow convention and put the request or data entry into UPPER CASE too.

- Pressing the <ENTER> key after each entry is required. Otherwise, the data entered may not be processed.

- The XRP application user interface is character based (not GUI). Navigation, selection, and moving is handled by keys. Each user interface screen has a set of active bottom line commands defining the keyboard letters, or function keys for activating functions or commands.

- **Your mouse has limited capabilities within ILM.** ILM is not GUI driven. There is no placing the mouse pointer on an item and double clicking, or drag and drop. Your terminal may provide cut and paste. ILM is a character based system that requires you to enter information, use bottom line commands, and press keys to start functions or commands.

ILM System

- The ILM System was designed to assist in the tracking of Government Property items for each site and in a consolidated manner.

- The ILM System is a character based, menu driven system based upon the UNIFY data base.

- Each screen provides the user with simple and quick one or two keystroke commands to control entry and editing of data.

- XRP administrators have the ability to easily modify screens, menus, and reports to meet changing requirements and individual user needs.

- Included are functions for transferring data between sites and the SMC.

- Reports and screens at the SMC can provide consolidated views of material and requirements.

The following manuals provide additional detailed information on XRP-II*:*

- *XRP-II System Reference Manual* presents an overview of XRP-II and describes system-related functions associated with using it.

- *XRP-II Product Information Manual* presents a full description of XRP-II's product information module in context of XRP-II's integrated set of manufacturing-oriented applications.

- *XRP-II Datalook/Datarite Reference Manual* presents a technical reference for the on screen database editor (DATALOOK) and report generator (DATARITE) incorporated in XRP-II and used to create custom screens and reports.

- *XRP-II Tools, Techniques, and Conventions Manual* presents a description of methods and utilities an XRP-II support engineer would use to perform low-level maintenance on XRP-II's database, screens, and reports.

- *UNIFY Developer's Reference* presents a guide with examples for using UNIFY's tools to develop database applications. It also describes many UNIFY messages.

- *UNIFY Direct HLI Programmer's Manual* presents a technical reference for programmers of UNIFY RDBMS applications and contains a summary of UNIFY's error log file and common error messages.

Refer to EOSDIS and ECS configuration management plans and procedures for definitions of such terms as baseline, configuration item, control item, and configured article used in this document.

4.3.4.1 Quick Start Using ILM

ILM inherited a character-based user interface from the XRP-II application which employs screens for data entry and report generation, and menus for navigating to the screens. Data is entered via the keyboard in fields that are traversed from left to right, row by row. On data entry screens, labels for fields whose values can be modified are displayed in upper case; those that can not have the first letter capitalized. The database is updated every time a field's value changes, and a record of that change is written to a transaction log.

Most data entry screens have a form and a table view. Form views offer full screen layouts of a data record's fields, whereas table views offer rows of records in a window that is panned to see columns of fields. Some screens' table views, however, contain fewer fields than their corresponding form views caused by system limitations on a table view's panes.

Numerous functions can be performed on the data entry screens. Commands available to an operator are screen-dependent and are listed near the bottom of each screen (hence their name: bottom-line commands). The **M**ore command helps the operator cycle through them. Most bottom-line functions are described in the XRP-II System Reference Manual Section 2.6 and XRP-II Product Information Manual**.** Those added for ILM are described in the sections below along with the screens to which they pertain. The terminology used can be confusing. "Mode" is used in two separate ways: 1) as used in the next paragraph to describe data impact (Add, Insert, or Modify), and 2) the F4-mode of keyboard impact on the selected field in the display.

It is important to note that the UNIFY database management system XRP-II uses does not support rules requiring entries in specific fields. ILM attempts some enforcement via the data entry screens, either by establishing default values where feasible when new records are created, or by blocking an operator from advancing the cursor past a null field when in Add, Insert, or Modify modes. However, database updates can occur in ways that bypass these mechanisms, so operators must ensure required data is entered.

The documentation of ILM used as a basis and referenced in this section is for ILM 3.1.1.

4.3.4.1.1 Invoking ILM From the Command Line Interface

To invoke the ILM program the operator must be logged in to the appropriate server and be registered with XRP for the appropriate privileges.

To execute ILM from the command line prompt use:

ilmusr

After logging into the appropriate server, the authorized users can invoke ILM by entering **ilmusr** on the command line. This script solicits the identity of the operator's workstation. When prompted the operator must provide either the workstation name or it's IP address. This information is normally posted on a sticker on the workstation monitor. The script then starts XRP-II, passing it the operator's userid which it obtains from the system. Access depends on the user's id being included in the XRP group. Also, the user must be listed in the XRP-II "users" configuration file, shown in Figure 4.3.4-1.The ECS Management System menu, Figure 4.3.4-2, is the next screen in the menu hierarchy. However, the screen that is displayed after the XRP-II login is determined by XRP-II based on the user's ID.

The initial screen is associated with a specific userid. ILM users will be assigned to Groups according to the role for which their userid is valid. ILM privileges are dependent on the Group assignment. ILM privileges include function selections, data modification capability, report selection. These assignments are made in the "users" configuration file described in section D.5 of the XRP-II System Reference Manual. The ILM administrator have the authorization to modify the content of this file. *The configuration of initial screen, screen modes, and function selection may result in the display of a data screen that is not exactly as shown in the presentation below.*

All ILM menus are similar in appearance and function the same way. Only the titles and selections vary. Refer to Chapter 2 of the XRP-II System Reference Manual to familiarize yourself with using the menus and screens.

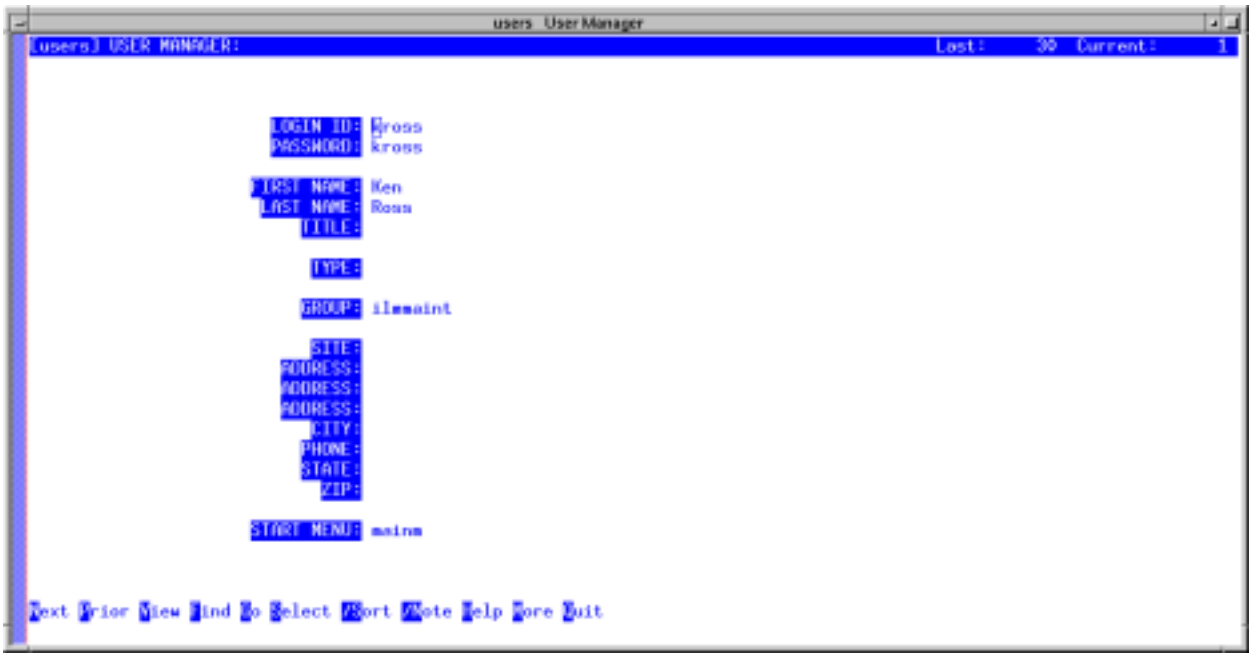


Figure 4.3.4-1. XRP-II Users Screen

4.3.4.2 ECS Management System Main Menu

The XRP top-level menu is ECS Management System Main Menu. The userid/password configured initial screen will generally be different for the operator. The ECS Management System Main Menu contains selections that are not ILM functions.

```
                              ECS Management System
[mainm                        Main Menu                11/07/97 14:2

          1. Baseline Management
          2. ILM Main Menu
          3. System Utilities Menu
          4. System Tools

                    Please enter selection ( 1 -4 or name): ------

F1-help F3-prior menu F5-select F8-exit
```

Figure 4.3.4-2. ECS Management System Main Menu

For the operator with only ILM authorization, the point of entry is ILM Main menu (Figure 4.3.4-3), and for an operator with more limited authorization, the point of entry is at a specified menu or

screen. In this and following sections, the navigation through the menus of ILM is defined for the user with the highest level of ILM authorization. The menus described are presented in order of the hierarchy of the menus as opposed to navigating through the steps for specific functions or capabilities.

To make a selection in the above menu and all other ILM menus, the operator may enter the option number and by pressing the enter key, or simply moving the cursor to the option to highlight it and press the enter key or F5 (function key 5). The tools built with XRP-II provide the bottom line commands for selection of options. Each screen is identified by a name presented at the top left corner of the screen. A user who is familiar with the names of the screens may enter the name for a selection. Note, the navigation using the name does not require the user to follow the standard path; rather, the entered name will allow jumping to the desired screen at any time. This is still controlled based on user privileges. That is, an unauthorized screen can not be accessed.

The tools built with XRP-II provide the bottom line commands for selection of options. For the menu screens the commands displayed in Table 4.3.4-2 are provided. These commands are common to all the menu screens in the XRP-II application.

Table 4.3.4-2. XRP-II menu Function Key bottom commands

F1	Function Key 1 - **help**	Get a description for the highlighted option
F3	Function Key 3 - **prior menu**	Move back to the previous menu
F5	Function Key 5 - **select**	Select the highlighted option
F8	Function Key 8 - **exit**	Exit the tool (XRP-II to the Unix command line)

```
ECS Management System
[ilmm]                    ILM MainMenu                11/07/97 14:04

                1.   EIN Menu
                2.   EIN Transactions
                3.   ILM Report Menu
                4.   Inventory Ordering Menu
                5.   PO / Receiving Menu
               6.   Maintenance Menu
               7.   ILM Master Menu


      Please enter selection ( 1 - 7 or name): ------
F1-help  F3-prior menu  F5-select  F8-exit
```

Figure 4.3.4-3. ILM Main Menu

The ILM Main Menu lets the operators navigate to the following submenus:

Table 4.3.4-3. ILM Main Menu Functions

Menu item	Function	Section
EIN Menu	For adding, modifying, and reviewing the inventory items.	4.3.4.2.1
EIN Transactions	For handling installation, shipment, transfer, and relocation of the inventory items.	4.3.4.2.2
ILM Report Menu	For requesting reports.	4.3.4.2.3
Inventory Ordering Menu	For defining ordering point (reorders), transfer and queries of consumable items and spare parts.	4.3.4.2.4
PO / Receiving Menu	For Purchase Order processing.	4.3.4.2.5
Maintenance Menu	For managing the maintenance and work order information.	4.3.4.2.6
ILM Master Menu	For managing the ILM parameters and reference information	4.3.4.2.7

ECS Management System Bottom Line Commands

The bottom line commands for each menu screen function the same as described for the main menu. Each data screen also has bottom line commands. The commands are invoked with the single letter in bold, or with a preceding slash, "/", or period, "." As indicated.

Note that the bottom line commands appearing on any screen are dependent on the user's attributes. Not all the commands listed for a screen may be appropriate to specific users.

A set of "standard" bottom line commands occurs on nearly all the ILM data screens. These commands are listed below in Table 4.3.4-4 ILM Standard Bottom Line Commands. The command function is the same as the original XRP-II application. These commands are described in the XRP-II System Reference Manual.

Table 4.3.4-4. Bottom Line Commands Common to All Screens

Function key/letter	Submenu used?	Description
/Report	Yes	Generate a report using submenu options.
Find	Yes	Locate a record with the selected value in the data base and display the record.
Go	Yes	Displays then nth record of the displayed screen-format is ng.
Help	Yes	Displays submenu to identify help target. Sometimes displays help description of selected field.
Justify		Places the current selected field at the left edge of the screen.
Left		Justify command to move the display left for View type displays.
More		Displays more bottom line commands (cycles).
Next		Moves the display "forward" records or pages depending on View type.
Prior		Moves the display "back" records or pages depending on View type.
Quit		Exits the current function. If at screen function will exit screen to previous screen.
Right		Justify command to move the display Right for View type displays
Select	Yes	Allows complex criteria to be used in record selection. See XRP-II System Reference Manual
Tag		"Tags" the selected field on the display screen for transport (mark).
Untag		Removes the "Tag" from selected field on the display screen.

Other commands may appear on specific screens and are listed in the "Unique Bottom Line Command" section for the function. These commands are listed below in Table 4.3.4-5 ILM Unique Bottom Line Commands.

While entering data into ILM you may notice that **/Z**oom appears at the bottom of your screen for a given field. This is your indication that a ZOOM list is available to assist you with your data entry selections. To operate a ZOOM screen do the following:

- enter **/Z** in field and a pick list will appear for you to make a selection.
- When the list appears, your cursor is already in the list.
- To select an item, move the cursor to the desired entry and press **<T>.**
- Your selection is highlighted.
- Press **<Q>** to return to the data entry screen. Notice that your selection now appears in the data entry field.

Table 4.3.4-5. Screen-dependent Bottom Line Commands

Function key/letter	Submenu used?	Description
/Add		Add (store) the displayed record (data on the screen) to the data base.
/Copy	Yes	Copy the “tagged” displayed fields (data on the screen) to other fields.
/Delete	Yes	Delete the displayed record (data on the screen) from the data base.
/Insert		Insert (store) the displayed record (data on the screen) in sequence to the data base
/Modify		Modify (store) the displayed record (data on the screen) in the data base.
/Note		Attach a 60 character note to the screen.
/Sort	Yes	Sort on the selected field of the displayed record (data on the screen).
/Zoom		Display a list of all the values of the selected field in the data base.
View		Toggles between “form” or record display and “table” or list display.
.Cartons		This command brings up the cartons page and allows the operator to enter the number and sizes of cartons.
/Items		This command invokes the items page of the structure manager to allow the user to add or modify children EIN items.
Addr		This command invokes the vendor address maintenance screen to allow the user to update the vendor address information.
Bom		This command allows the user to view the Bill of Material for this item, if any.
Copy-bill		This command allows the user to copy the Bill of Material for this item to create a new item’s BOM.
Copy-dates		This command allows the user to copy the Active and Inactive from the Parent record to the children records.
Copypart		This command allows the user to copy the information for this part.
Copyein		This command allows the user to create a new item while copying all the fields except the EIN Number from another item.
Execute		This command activates the process described by the current screen.
Where		This command allows the user to view all EIN parent items this item has been assigned to, if any.
Write		Saves the current record to a file designated by the operator.

Table 4.3.4-6. Add mode bottom line commands

ADD F1-help F2-clear F3-exit F4-mode F6=default

Screens may be entered in one of the modes: Add or Modify. In this case the bottom line will specify the mode and appropriate function keys. For Example, The bottom line command for the Add mode is shown in Table 4.3.4-6 *Add mode bottom line commands*. For this mode, the F3-exit command "exits" to the "normal" mode and the regular bottom line commands will appear.

Help refers to a text description of the subject, superimposed on the screen. Help may be invoked from the data screens with the F1 function key (in ADD mode) or the "**H**" keyin followed by an <Enter>. If a field is selected when F1 is used the text description of the field is displayed in a frame superimposed on the data screen. Otherwise, a Help bottom line is displayed as shown in Table 4.3.4-7 *Help bottom line commands*. The subject for the help description is selected by the appropriate keyin followed by <Enter>. The Help command has to be exited by using the Quit command or F3. If no help is available for the selected subject then a "No help for …" message appears at the bottom left of the screen.

Table 4.3.4-7. Help Bottom Line Commands

HELP: **F**ield **S**creen **C**ommands **Q**uit

In the discussion below, each ILM function is described with a presentation of the screen(s) for performing the function. Associated with each screen are tables for the Bottom Line Commands and Data Fields displayed on the screen. There is significant variation allowable on the screens for the Bottom Line Commands and Display/Input of individual data fields based on the operator's privileges and other considerations. For this reason the indication of data field Display/Input has not been included in the tables.

4.3.4.2.1 EIN Menu

Options provided on this menu allow the operator to navigate to a set of screens for managing and accessing the inventory information.

```
                              ECS Management System
[einmainm]                    EIN Menu          11/07/97          14:04

        1.      EIN Entry
        2.      EIN Manger
        3.      EIN Structure Manger
        4.      EIN Inventory Manager

      Please enter selection ( 1 - 4 or name): ------

F1-help F3-prior menu F5-select F8-exit
```

Figure 4.3.4-4. EIN Entry Menu CHUI

4.3.4.2.1.1 EIN Entry Screen

This screen is designed to enter ILM EIN controlled items into the data base. It is presented to the user upon receipt of items at the receiving dock. It is also presented in the EIN MENU to allow entry of items outside the receiving process. This screen is always presented to the user in the ADD mode. All ILM items must be entered through this screen.

```
[einent] EIN ENTRY:                                  Last: ______  Current: ______
                 EIN: ____________________      SERIAL NUMBER: ________________________________
OEM PART NUMBER: ____________________________________     OEM DESCRIPTION:
________________________________________     CONTROL ITEM ID: ____________________
ECS NAME: ___________________________        HDWSFT CODE: __________                        :
_____________________
       MODEL/VERSION: ________________________                  MFG: ______
YEAR MFG: ____              VENDOR: ______              SOFTWARE LIC NUM: __________
MAINT VENDOR: ______                MAINT CONTRACT: ____________________        STATUS CODE: _
NASA CONTRACT: __________        RELEASE CODE: __________                  PO Number: __________
Tran Code: __                          LOCATION: ______            BUILDING: ______
ROOM: ______                USER: __________                UNIT COST: ______.___
COMMENT: ____________________________________________________________                NOTE:
____________________________________________________________ WARRANTY EXP DATE: __/__/__
Next Prior View Find Go Select /Sort /Note Copyein Bom Where Help More Quit
```

Figure 4.3.4-5. EIN Entry CHUI

Bottom Line Commands:

- ADD MODE: F1,F2,F3,F4,F6
- **/A**dd Add (store) the displayed record (data on the screen) to the data base.
- **/D**elete Delete the displayed record (data on the screen) from the data base.
- **/I**nsert Insert (store) the displayed record (data on the screen) in sequence to the data base
- **/M**odify Modify (store) the displayed record (data on the screen) in the data base.
- **/C**opy Copy the "tagged" displayed fields (data on the screen) to other fields.
- **/N**ote Add a note to the displayed record (data on the screen).
- **/S**ort Sort on the selected field of the displayed record (data on the screen).
- **B**om This field allows the user to view the Bill of Material for this item, if any.
- **C**opyein This command allows the user to create a new item while copying all the fields except the EIN Number from another item.
- **V**iew Toggles between "form" or record display and "table" or list display.
- **W**here This command allows the user to view all EIN parent items this item has been assigned to, if any.

Table 4.3.4-8. EIN Entry Field Descriptions (1 of 3)

Field Name	Data Type	Size	Description
EIN	String	14	This field is for the entry of the actual silver tag numbers attached to each item. If an item must be controlled by the ILM but does not receive a silver tag, the system creates an internal tag number which is prefixed with the Site abbreviation and contains a sequentially assigned number. Pressing RETURN at the field prompt automatically performs this internal assignment. This number, whether entered or assigned, must be used for all machine configuration operations as well as reporting and maintenance functions.
SERIAL NUMBER	String	30	This field is for the entry of the serial number of the product being entered. If the item does not contain a serial number of it's own, the system will assign an internal number prefixed with the Site abbreviation and contain a sequentially assigned number. Pressing RETURN at the field prompt automatically performs this internal assignment
OEM PART NUMBER	String	34	This field is for the entry of the Manufacturer's or Vendor's part number. The user may perform a zoom to the OEM PART NUMBER screen (oempart) at this field to pick the appropriate item. NOTE: These OEM Part Numbers must be entered prior to the use in this screen. When an item is from this file is chosen, the information contained in the file is written to the EIN file.
OEM DESCRIPTION	String	30	This field reflects the description of the OEM PART NUMBER entered in the field above, but provides the ability for the user to modify it in the EIN file.
CONTROL ITEM ID	String	20	This field provides the ability for the user to point to an equivalent item contained within the BASELINE MANAGEMENT system.
ECS NAME	String	23	This field provides the ability for the user to enter a name the item will be known by.

Table 4.3.4-8. EIN Entry Field Descriptions (2 of 3)

Field Name	Data Type	Size	Description
HDWSFT CODE	String	10	This field provides the ability for the user to enter a code designating the type of item. The user may zoom to the Hardware/Software data file. NOTE: This data must be previously entered in screen Hardware/Software Codes (hwswcd).
MODEL/ VERSION	String	24	This field is used to enter the actual Model and or Version of the item. If the user had chosen a known OEM Part, this field will be written with the information from this file.
MFG	String	6	This is the code of the manufacturer.
YEAR MFG	String	4	This field is used to enter the actual 4-digit year the item was manufactured. This field defaults to the current year.
VENDOR	String	6	This field is used to enter the Vendor code whom the item was purchased from. The user may zoom to the Vendor data file and pick the desired code. NOTE: This data must be previously entered using screen Vendor Master Maintenance (vmasts).
SOFTWARE LIC NUM	String	10	This field is used to enter the license number for a software type license item.
MAINT VENDOR	String	6	This field is used to enter the code for the vendor who is the maintenance vendor. The user may zoom to the Vendor data file and choose the appropriate code. NOTE: This information must be previously enter using screen Vendor Master Maintenance (vmasts).
MAINT CONTRACT	String	15	This field is used to enter the Maintenance Contract number for maintenance on this particular item. The user may zoom to the Contract data file and choose the desired contract number. NOTE: This data must be previously enter with screen Maintenance Contracts (mntcont).
STATUS CODE	String	1	This field designates the status of the item and is controlled by transactions within the system.. The following codes are included : R - Received; S - Shipped; I - Installed; A - Archived;
NASA CONTRACT	String	11	This field is used to designate the Contract number used for this item. This information is automatically assigned and can not be changed.
RELEASE CODE	String	10	This field is used for entry of the actual release code for the item.
PO NUMBER	String	10	The user will enter the Purchase Order Number in this field for item selection when adding children items. The user will use the PO Number or the Vendor Code in he next field. For Receipts the field is filled in by the Receiving system and designates the Purchase Order the item was received against.
TRAN CODE	Number	3	This field designates the transaction code. The value will always be set to ‘03’ and is not modifiable by the user

Table 4.3.4-8. EIN Entry Field Descriptions (3 of 3)

Field Name	Data Type	Size	Description
LOCATION	String	8	This field is used to designate the actual location or site of where the item is. The user may zoom to the Location screen to pick an appropriate code. NOTE : This data must be previously entered with screen Material Location Maintenance (imlocns).
BUILDING	String	6	This field is used to designate the building number within the site where the item is.
ROOM	String	6	This field is used to enter the actual room number of where the item is or will be shipped to.
USER	String	8	The user code of the person who has the item. The user may choose to zoom to the User ID data base and pick the appropriate code. NOTE : This information must be previously entered with screen Employee Maintenance (sfempmnt).
NOTE	String	60	This field is used to enter a 60 character note attached to this item.
WARRANTY EXP DATE	Date	2	This field is used to enter the end date for the warranty period. This field default to 365 days from the date of entry.
UNIT COST	Number	10	This field is used to enter the price for each item.
COMMENT	String	60	This field is a user comment field.
NOTE	String	60	This field is used to enter a 60 character note attached to this item.

4.3.4.2.1.2 EIN Manager

This screen is designed to view or modify ILM EIN controlled items. This screen is always presented to the user in INQUIRY mode. Although the user may modify most fields on the screen, it is advised that the user adhere to the many functions present within ILM to cause changes and modifications to the EIN records. Only skilled and trained operators should be using this screen to modify data.

Figure 4.3.4-6. EIN Manager CHUI

Bottom Line Commands:

- **/A**dd Add (store) the displayed record (data on the screen) to the data base.
- **/C**opy Copy the "tagged" displayed fields (data on the screen) to other fields.
- **/D**elete Delete the displayed record (data on the screen) from the data base.
- **/I**nsert Insert (store) the displayed record (data on the screen) in sequence to the data base
- **/M**odify Modify (store) the displayed record (data on the screen) in the data base.
- **/N**ote Add a note to the displayed record (data on the screen).
- **/S**ort Sort on the selected field of the displayed record (data on the screen).
- **B**om This field allows the user to view the Bill of Material for this item, if any.
- Copypart This command copies the part displayed to create another item for the parent.

View Toggles between "form" or record display and "table" or list display.

Table 4.3.4-9. EIN Manager Field Description (1 of 3)

Field Name	Data Type	Size	Description
EIN	String	14	This field is for the entry of the actual silver tag numbers attached to each item. If an item must be controlled by the ILM but does not receive a silver tag, the system creates an internal tag number which is prefixed with the Site abbreviation and contains a sequentially assigned number. Pressing RETURN at the field prompt automatically performs this internal assignment. This number, whether entered or assigned, must be used for all machine configuration operations as well as reporting and maintenance functions.
ECS NAME	String	23	This field provides the ability for the user to enter a name the item will be known by.
SERIAL NUMBER	String	30	This field is for the entry of the serial number of the product being entered. If the item does not contain a serial number of it's own, the system will assign an internal number prefixed with the Site abbreviation and contain a sequentially assigned number. Pressing RETURN at the field prompt automatically performs this internal assignment
HDWSFT CODE	String	10	This field provides the ability for the user to enter a code designating the type of item. The user may zoom to the Hardware/Software data file. NOTE: This data must be previously entered in screen Hardware/Software Codes (hwswcd).
MODEL/VERSION	String	24	This field is used to enter the actual Model and or Version of the item. If the user had chosen a known OEM Part, this field will be written with the information from this file.
MFG	String	6	This is the code of the manufacturer.
OEM PART NUMBER	String	34	This field is for the entry of the Manufacturer's or Vendor's part number. The user may perform a zoom to the OEM PART NUMBER screen (oempart) at this field to pick the appropriate item. NOTE: These OEM Part Numbers must be entered prior to the use in this screen. When an item is from this file is chosen, the information contained in the file is written to the EIN file.
OEM DESCRIPTION	String	30	This field reflects the description of the OEM PART NUMBER entered in the field above, but provides the ability for the user to modify it in the EIN file.

Table 4.3.4-9. EIN Manager Field Description (2 of 3)

Field Name	Data Type	Size	Description
VENDOR	String	6	This field is used to enter the Vendor code whom the item was purchased from. The user may zoom to the Vendor data file and pick the desired code. NOTE: This data must be previously entered using screen Vendor Master Maintenance (vmasts).
YEAR MFG	String	4	This field is used to enter the actual 4-digit year the item was manufactured. This field defaults to the current year.
SOFTWARE LIC NUM	String	10	This field is used to enter the license number for a software type license item.
MAINT VENDOR	String	6	This field is used to enter the code for the vendor who is the maintenance vendor. The user may zoom to the Vendor data file and choose the appropriate code. NOTE: This information must be previously enter using screen Vendor Master Maintenance (vmasts).
MAINT CONTRACT	String	15	This field is used to enter the Maintenance Contract number for maintenance on this particular item. The user may zoom to the Contract data file and choose the desired contract number. NOTE: This data must be previously enter with screen Maintenance Contracts (mntcont).
WARRANTY EXP DATE	Date	2	This field is used to enter the end date for the warranty period. This field default to 365 days from the date of entry.
CONTROL ITEM ID	String	20	This field provides the ability for the user to point to an equivalent item contained within the BASELINE MANAGEMENT system. The user may enter the ID if known, or perform a zoom to the Baseline data file.
STATUS CODE	String	1	This field designates the status of the item and is controlled by transactions within the system.. The following codes are included : R - Received; S - Shipped; I - Installed; A - Archived;
NASA CONTRACT	String	11	This field is used to designate the Contract number used for this item. This information is automatically assigned and can not be changed.
Po Number	String	10	The user will enter the Purchase Order Number in this field for item selection when adding children items. The user will use the PO Number or the Vendor Code in he next field. For Receipts the field is filled in by the Receiving system and designates the Purchase Order the item was received against.
Tran Code	Number	3	This field designates the transaction code. The value will always be set to '03' and is not modifiable by the user
Report Number	Number	4	This field is the installation report number assigned by the system when an installation had occurred.

Table 4.3.4-9. EIN Manager Field Description (3 of 3)

Field Name	Data Type	Size	Description
LOCATION	String	8	This field is used to designate the actual location or site of where the item is. The user may zoom to the Location screen to pick an appropriate code. NOTE : This data must be previously entered with screen Material Location Maintenance (imlocns).
BUILDING	String	6	This field is used to designate the building number within the site where the item is.
ROOM	String	6	This field is used to enter the actual room number of where the item is or will be shipped to.
YEAR MFG	String	4	This field is used to enter the actual 4-digit year the item was manufactured. This field defaults to the current year.
RECEIVE DATE	String	8	Date item was received from vendor
MAINT CONTRACT	String	15	This field is used to enter the Maintenance Contract number for maintenance on this particular item. The user may zoom to the Contract data file and choose the desired contract number. NOTE: This data must be previously enter with screen Maintenance Contracts (mntcont).
RMA#	String	6	Reliability Maintainability Availability number.
RELEASE CODE	String	10	This field is used for entry of the actual release code for the item.
COST	Floating	9.2	This field is the purchase cost of the item.
INSTALLATION DATE	Date	2	This date reflects the actual date this item was installed.
Shipping Report Number	Number	2	This field is the report number assigned to this item when the item was shipped.
MFG	String	6	This is the code of the manufacturer.
USER	String	8	The user code of the person who has the item. The user may choose to zoom to the User ID data base and pick the appropriate code. NOTE : This information must be previously entered with screen Employee Maintenance (sfempmnt).
COMMENT	String	60	This field is a user comment field.
NOTE	String	60	This field is used to enter a 60 character note attached to this item.

4.3.4.2.1.3 EIN Structure Manager

This screen is designed to enter a structure for a machine, e.g. assign child items to parents. This screen is always presented to the user in INQUIRY mode. To add a new item, the user will invoke the /A, (ADD) command and proceed to add the new header record. The user has the choice of entering the PO Number or Vendor Code in the header record. The system uses this field to pick and display the items when adding children items in the items page. Leaving these two fields blank or NULL will cause the ZOOM function to display all EIN items. When complete, the user will

use the Items bottom line command to display the items page and proceed to add or modify the EIN children.

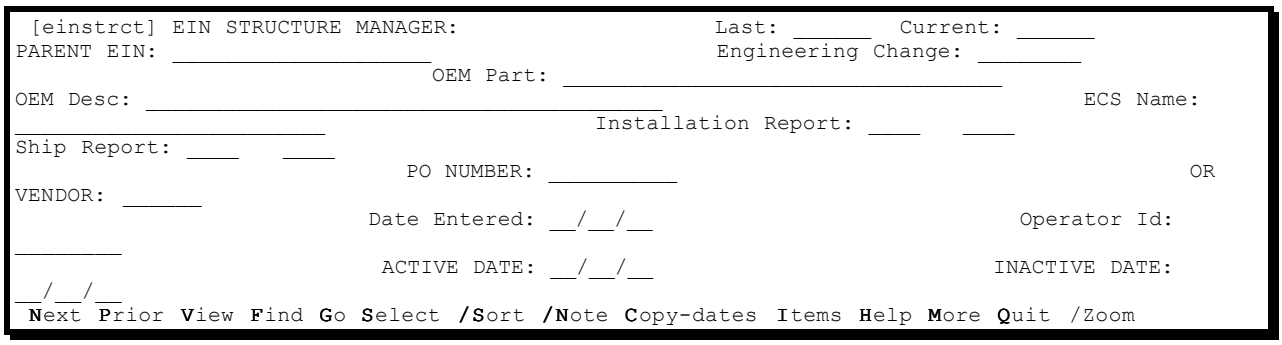


Figure 4.3.4-7. EIN Structure Manager CHUI

Bottom Line Commands:

- **/A**dd Add (store) the displayed record (data on the screen) to the data base.
- **/C**opy Copy the "tagged" displayed fields (data on the screen) to other fields.
- **/D**elete Delete the displayed record (data on the screen) from the data base.
- **/I**nsert Insert (store) the displayed record (data on the screen) in sequence to the data base
- **/M**odify Modify (store) the displayed record (data on the screen) in the data base.
- **/N**ote Add a note to the displayed record (data on the screen).
- **/S**ort Sort on the selected field of the displayed record (data on the screen).
- **/Z**oom Display a list of all the values of the selected field in the data base.
- **C**opy-dates This command allows the user to copy the Active and Inactivedates from the Parent record to the children records.
- **I**tems This command invokes the items page of the structure manager to allow the user to add or modify children EIN items.
- **V**iew Toggles between "form" or record display and "table" or list display.

Table 4.3.4-10. EIN Structure Manager Field Descriptions

Field Name	Data Type	Size	Description
PARENT EIN	String	14	This field is the Parent EIN for the installation/structure. The user may /Z, Zoom at this field to view the entire EIN data base.
Engineering Change	String	8	This field is the change number assigned when the record was added to the data base. The user should press RETURN at this field to allow the system to assign the default.
OEM Part	String	34	This field is the OEM part number reflected from the EIN record of the child.
OEM Desc	String	40	This field is the OEM Description reflected from the EIN Record for the Parent EIN.
ECS Name	String	23	This field provides the ability for the user to enter a name the item will be known by.
Installation Report	Number	4	This field is the installation report number assigned by the system when an installation had occurred and as reflected from the EIN Record for the Parent EIN.
Ship Report	Number	3	This field is the report number assigned to this item as reflected from the Parent EIN record when the item was shipped.
PO NUMBER	String	10	The user will enter the Purchase Order Number in this field for item selection when adding children items. The user will use the PO Number or the Vendor Code in he next field. For Receipts the field is filled in by the Receiving system and designates the Purchase Order the item was received against.
OR VENDOR	String	6	This field is used to enter the Vendor code whom the item was purchased from. The user may zoom to the Vendor data file and pick the desired code. NOTE: This data must be previously entered using screen Vendor Master Maintenance (vmasts).
Date Entered	Date	2	This field is a system assigned date when the record was added to the data base and not modifiable by the user.
Operator ID	String	8	This field is the login ID of the user who added this item to the data base and is not modifiable by the user.
ACTIVE DATE	String	8	Date the item is received and entered into inventory
INACTIVE DATE	Date	2	This field is the date to make the structure ineffective.

4.3.4.2.1.4 EIN Inventory Query

This screen is designed to view the inventory location of EIN controlled items. The user may sort and select by any field on the screen and then print a report of the data. This screen is displayed in Inquiry mode only and the user may not modify any data with this screen.

Figure 4.3.4-8. EIN Inventory Query CHUI

Bottom Line Commands:

- **/N**ote Add a note to the displayed record (data on the screen).
- **/S**ort Sort on the selected field of the displayed record (data on the screen).
- **V**iew Toggles between “form” or record display and “table” or list display.

Table 4.3.4-11. EIN Inventory Query Field Descriptions

Field Name	Data Type	Size	Description
EIN	String	14	This field is for the entry of the actual silver tag numbers attached to each item. If an item must be controlled by the ILM but does not receive a silver tag, the system creates an internal tag number which is prefixed with the Site abbreviation and contains a sequentially assigned number. Pressing RETURN at the field prompt automatically performs this internal assignment. This number, whether entered or assigned, must be used for all machine configuration operations as well as reporting and maintenance functions.
ECS Name	String	23	This field provides the ability for the user to enter a name the item will be known by.
OEM Part	String	34	This field is the OEM part number reflected from the EIN record of the child.
OEM Desc	String	40	This field is the OEM Description reflected from the EIN Record for the Parent EIN.
Control Item ID	String	20	This field provides the ability for the user to point to an equivalent item contained within the BASELINE MANAGEMENT system. ILM will enter the BLM Control Item based on the OEM Part Number.
Cost	Floating	9.2	This field is the purchase cost of the item.
Location	String	8	This field is used to designate the actual location or site of where the item is. The user may zoom to the Location screen to pick an appropriate code. NOTE : This data must be previously entered with screen Material Location Maintenance (imlocns).
Building	String	6	This field is used to designate the building number within the site where the item is.
Room	String	6	This field is used to enter the actual room number of where the item is or will be shipped to.
User	String	8	The user code of the person who has the item. The user may choose to zoom to the User ID data base and pick the appropriate code. NOTE : This information must be previously entered with screen Employee Maintenance (sfempmnt).
Name	String	30	This field is the user's name as reflected from the user file.
Status	String	1	Status code for TERMS CODE
Install Date	Date	2	This date reflects the actual date this item was installed.

4.3.4.2.2 EIN Transactions

Options provided on this menu allow the operator to navigate to a set of screens to perform the transactions for installation, relocation, archiving of the inventory items and related queries for these functions.

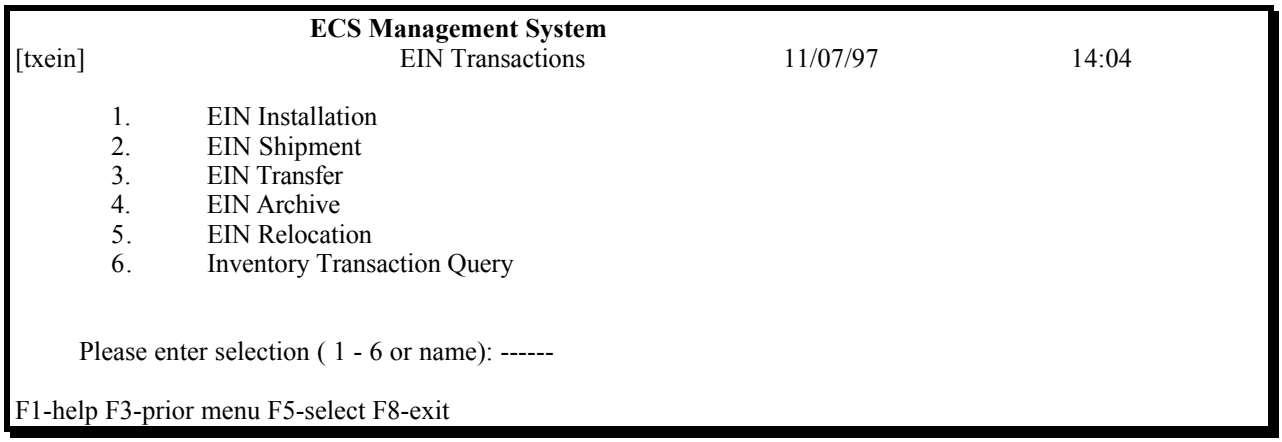


Figure 4.3.4-9. EIN Transaction Menu

4.3.4.2.2.1 EIN Installation Screens

This screen is designed for the actual installation process of the Parent EIN and all or selected children. This screen is invoked after the item had been delivered to the user and signed off. This screen is always presented in ADD mode. The user enters the Parent EIN~~,~~ and the new locations fields~~,~~ then invokes the Items command to choose which EIN children will be installed as well.

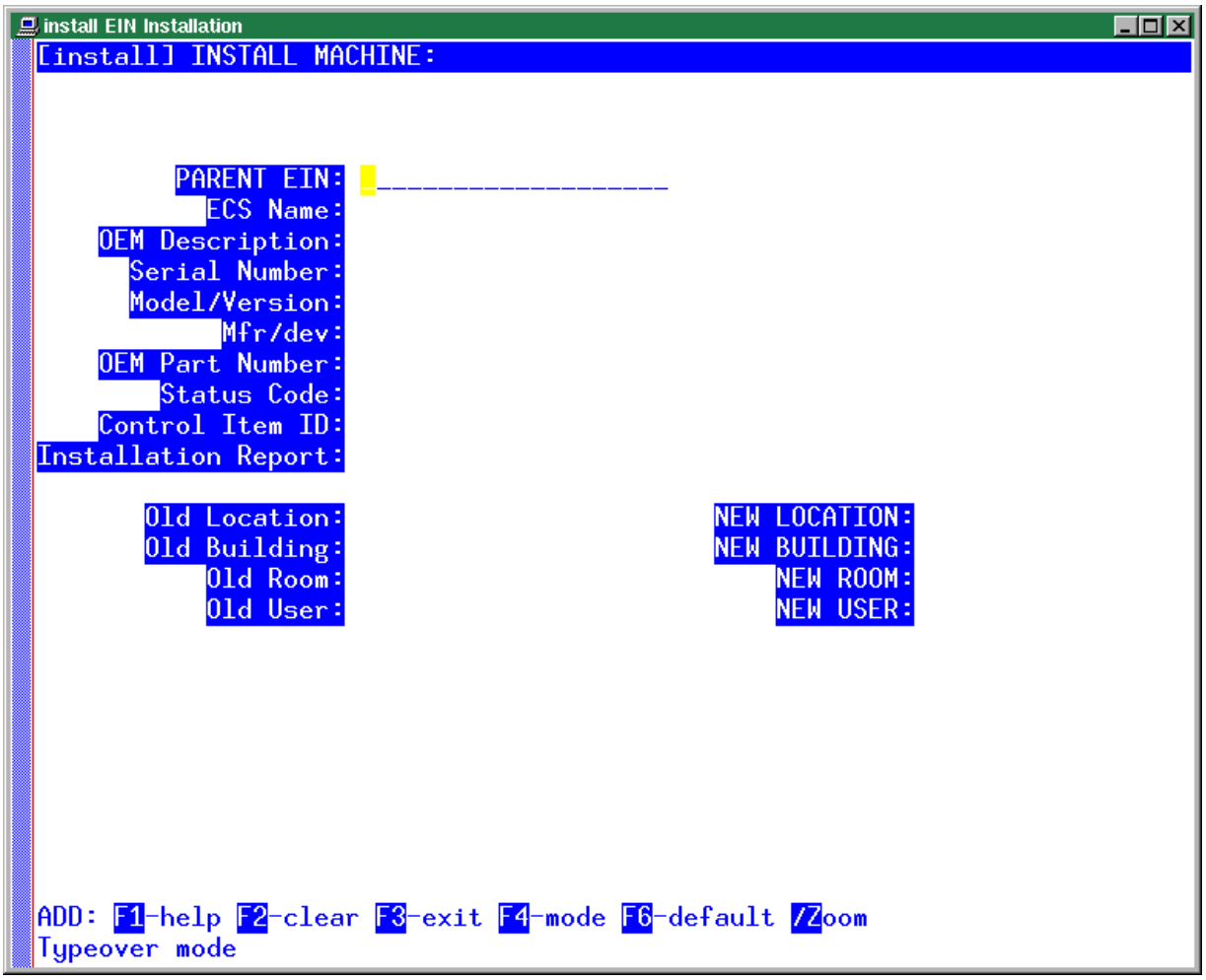


Figure 4.3.4-10. EIN Installation CHUI

Bottom Line Commands:

- ADD MODE: F1,F2,F3,F4,F6
- /**A**dd (store) the displayed record (data on the screen) to the data base.
- /**C**opy the "tagged" displayed fields (data on the screen) to other fields.
- /**D**elete the displayed record (data on the screen) from the data base.
- /**I**nsert (store) the displayed record (data on the screen) in sequence to the data base
- /**M**odify (store) the displayed record (data on the screen) in the data base.
- /**N**ote, Add a note to the displayed record (data on the screen).

- /**S**ort on the selected field of the displayed record (data on the screen).
- /**Z**oom toDisplay a list of all the values of the selected field in the data base.
- **E**xecute invokes the appropriate process and prints a report on the results.
- **I**tems command invokes the items page of the structure manager to allow the user to add or modify children EIN items.
- **V**iew toggles between "form" or record display and "table" or list display.

Table 4.3.4-12. EIN Installation Field Descriptions

Field Name	Data Type	Size	Description
PARENT EIN	String	14	This field is the Parent EIN for the installation/structure. The user may /Z, Zoom at this field to view the entire EIN data base.
ECS Name through Old User	MULTI-FIELD		These fields are all reflected from the Parent Ein record and cannot be modified.
NEW LOCATION	String	6	This field is the new location code or site code where the parent was installed.
NEW BUILDING	String	10	This field is the new building code where the parent was installed.
NEW ROOM	String	6	This field is the new room code where the parent was installed.
NEW USER	Number	4	This field is the user code the parent was assigned to. The operator may /Z, Zoom at this field to view the User data base.

4.3.4.2.2.2 Items Page of EIN Installation

This screen is designed for the user to choose which child EIN items have been installed with the parent. If the parent has already been installed, the system display a warning message to the user but allows the user to choose to install more children if desired. The user will enter Modify mode and place a 'Y' in the INSTALL field of the screen for each child EIN that was installed.

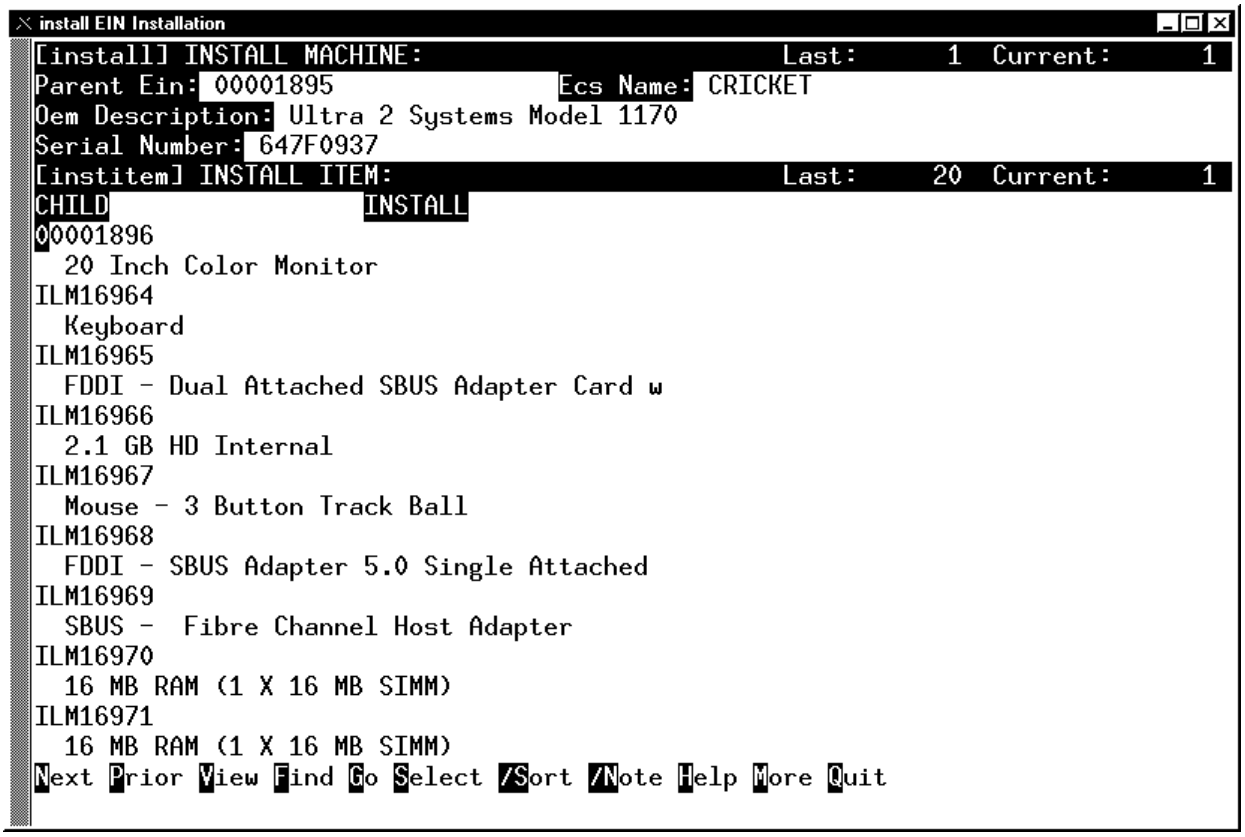


Figure 4.3.4-11. Items Page CHUI

Bottom Line Commands:

None.

Table 4.3.4-13. Items Page Field Descriptions

Field Name	Data Type	Size	Description
CHILD	String	14	Displayed is the CHILD EIN with the description of the item under
INSTALL	String	1	This field accepts either a 'N' or 'Y' to designate to the system which items are to be shipped with the parent..

4.3.4.2.2.3 EIN Shipment

EIN Shipment provides tracking of EIN shipping information.

4.3.4.2.2.4 EIN Shipment Screen

This screen is designed for the user to ship a parent EIN and children to another site. This screen is always presented in the ADD mode. The user enters the required data elements, invokes the items page to choose the EIN parents to be shipped, invokes the items command of the parent page to display the EIN children and choose those to be shipped with each parent, invokes the .Cartons command to enter the number, weight and size of the cartons being shipped, then Executes the transaction and prints the shipment report.

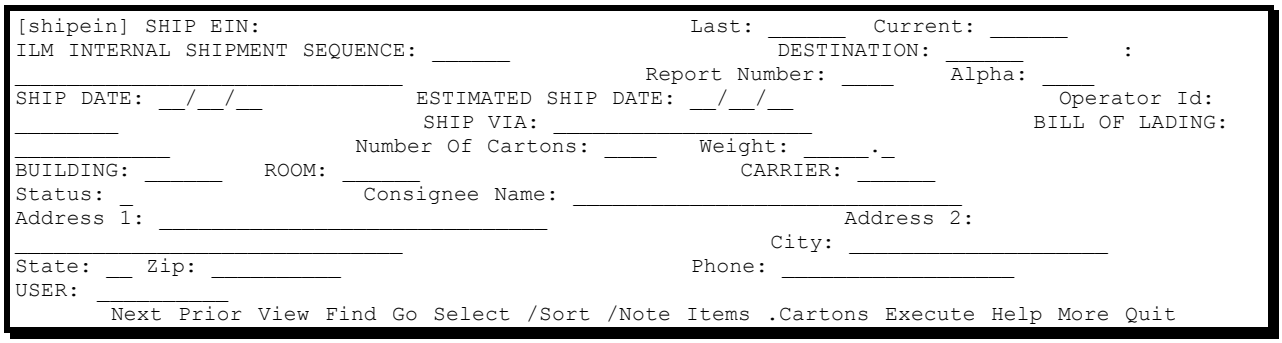


Figure 4.3.4-12. EIN SHIPMENT CHUI

Bottom Line Commands:

- .Cartons This command brings up the cartons page and allows the operator to enter the number and sizes of cartons.
- /**A**dd (store) the displayed record (data on the screen) to the data base.
- /**C**opy the "tagged" displayed fields (data on the screen) to other fields.
- /**D**elete the displayed record (data on the screen) from the data base.
- /**I**nsert (store) the displayed record (data on the screen) in sequence to the data base
- /**M**odify (store) the displayed record (data on the screen) in the data base.
- /**N**ote, Add a note to the displayed record (data on the screen).
- /**S**ort on the selected field of the displayed record (data on the screen).
- /**Z**oom toDisplay a list of all the values of the selected field in the data base.
- **E**xecute invokes the appropriate process and prints a report on the results.
- **I**tems command invokes the items page of the structure manager to allow the user to add or modify children EIN items.

- **V**iew toggles between "form" or record display and "table" or list display.

Table 4.3.4-14. Ship EIN Field Descriptions

Field Name	Data Type	Size	Description
ILM INTERNAL SHIPMENT SEQUENCE	Number	6	This field is the internal shipment sequence maintained by the system. The user should always press return at this field to allow the system to assign the next internal sequence number.
DESTINATION	String	6	This field is the destination location or site code where the parent and children are being shipped to. The user may /Z, Zoom at this field to display the location data base.
Report Number and Alpha	MULTI-FIELD		These two fields display the shipping report number for the location and parent EIN and are not modifiable by the user.
SHIP DATE	Date	2	This field is the actual shipping date and defaults to the current date.
ESTIMATED SHIP DATE	Date	2	This field is the estimated ship date for the shipment.
Operator Id	String	8	This field is the login ID of the user who added this item to the data base and is not modifiable by the user.
SHIP VIA	String	20	This field is used to enter the shipment method.
BILL OF LADING	String	255	The user will enter the actual Bill of Lading in this field.
Number of Cartons and Weight	MULTI-FIELD		Number of cartons and total weight of shipment.
BUILDING	String	6	This field is used to designate the building number within the site where the item is.
ROOM	String	6	This field is used to enter the actual room number of where the item is or will be shipped to.
Status through Phone	MULTI-FIELD		These fields present the status of the parent and the coassignee name and address information from the location data base.
USER	String	8	The user code of the person who has the item. The user may choose to zoom to the User ID data base and pick the appropriate code. NOTE : This information must be previously entered with screen Employee Maintenance (sfempmnt).

4.3.4.2.2.5 Items Page for EIN Shipment

This screen is designed for the user to enter EIN items to be shipped. The operator will use the Items command of this page to display the children of each parent and designate which children are to be shipped.

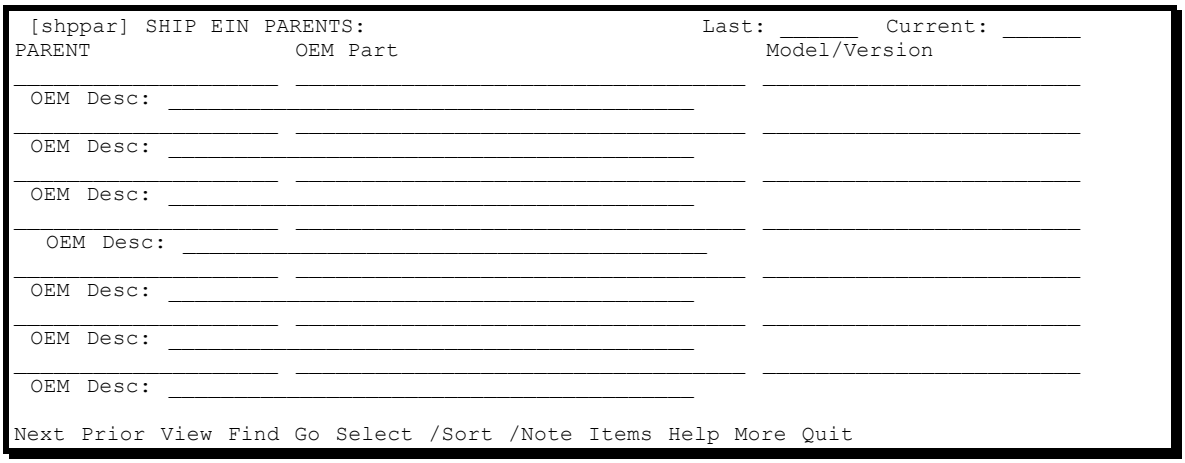


Figure 4.3.4-13. Items Page for EIN Shipment

Bottom Line Commands:

- **/I**tems - This command allows the user to select which EIN children are to be shipped.

Table 4.3.4-15. Items Page for EIN Shipment Field Descriptions

Field Name	Data Type	Size	Description
PARENT	String	20	Enter the Parent EIN number to be shipped.
OEM Part, Model, and OEM Desc	MULTI-FIELD		These fields are reflected from the EIN record of the entered parent EIN.

4.3.4.2.2.6 Items Structure Page for EIN Shipment

This screen is designed for the user to enter or designate which children of the parent EIN's will be shipped.

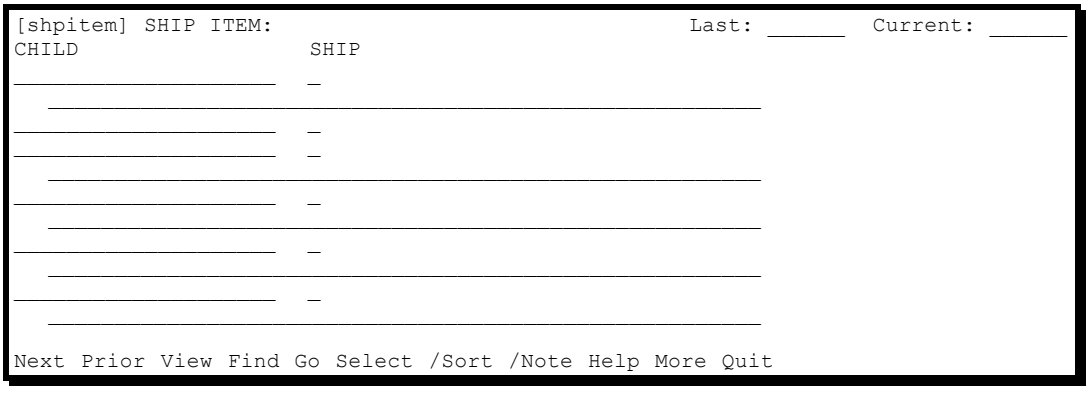


Figure 4.3.4-14. Items Structure Page for EIN Shipment

Bottom Line Commands:

None.

Table 4.3.4-16. Items Structure Page for EIN Shipment Field Descriptions

Field Name	Data Type	Size	Description
CHILD	String	14	Displayed is the CHILD EIN with the description of the item under
INSTALL	String	1	This field accepts either a 'N' or 'Y' to designate to the system which items are to be shipped with the parent..

4.3.4.2.2.7 Carton Size

This screen is designed for the user to enter the dimensions, weight, and quantity of the cartons for the shipment.

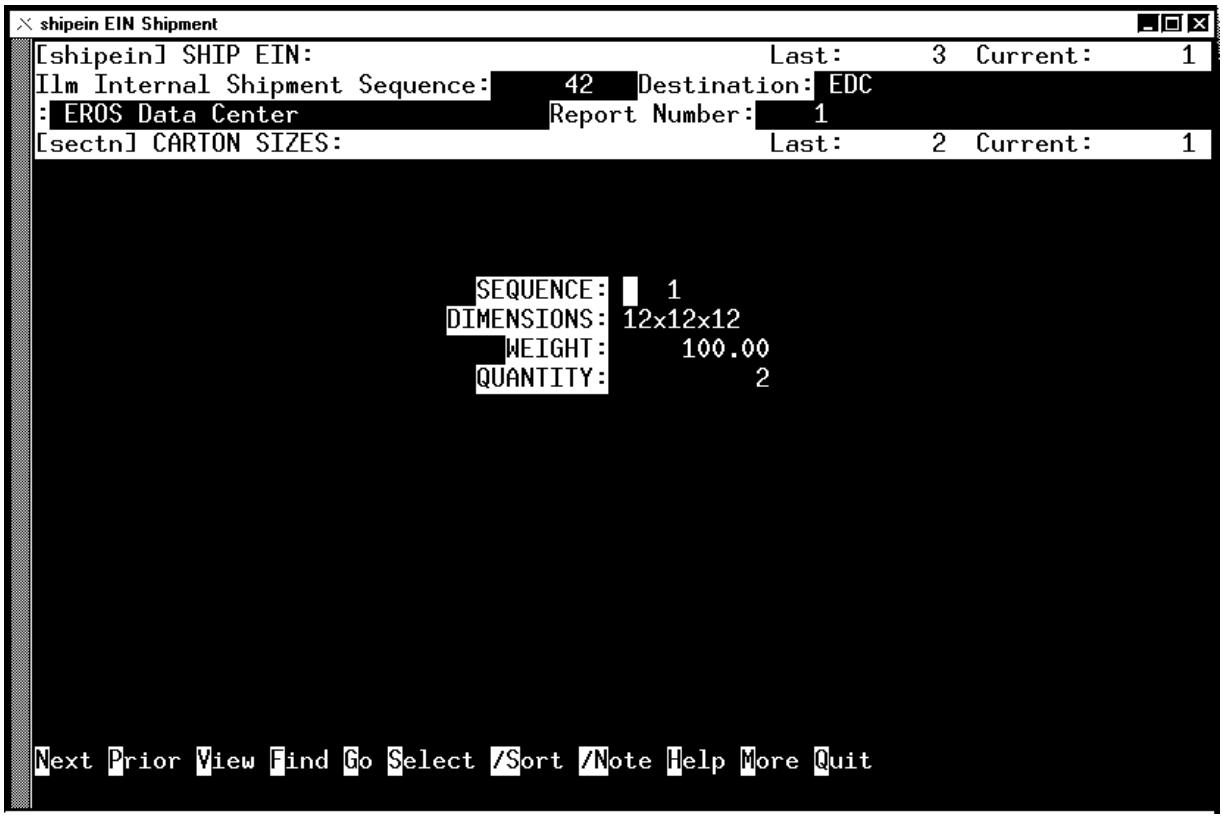


Figure 4.3.4-15. Carton Size Page for EIN Shipment

Bottom Line Commands:

None.

Table 4.3.4-17. Carton Size Page for EIN Shipment Field Descriptions

Field Name	Data Type	Size	Description
SEQUENCE	Number	4	This field is the automatically assigned sequence number of the cartons data attached to the shipment header record.
DIMENSIONS	String	8	Enter the actual dimensions of the box.
WEIGHT	Floating	7.1	Enter the weight of the box.
QUANTITY	Floating	10.1	Enter the quantity of the boxes having the same dimension and weight.

4.3.4.2.3 EIN Transfer

EIN Transfer provides tracking of EIN shipping information.

4.3.4.2.3.1 EIN Transfer Machine Screen

This screen is designed for the user to transfer a machine from one location or building or room or user to another. This screen is always presented to the operator in the ADD mode. The operator will enter the Parent EIN number and other fields, then invoke the items page to choose which children of the parent are being transferred as well. When the selection is complete, the operator will execute the transaction and print a report.

```
[transfer] TRANSFER MACHINE:                          Last: ______  Current: ______
                   PARENT EIN: ____________________        DESTINATION LOCATION: ______
BUILDING: ______                          ROOM: ______                  REASON CODE: ____
CCR #: ________________________________                TROUBLE TICKET: ________________
NEW USER: __________

Next Prior Find Go Select /Sort /Note Items Execute Help More Quit
```

Figure 4.3.4-16. EIN Transfer Machine CHUI

Bottom Line Commands:

- ADD MODE: F1,F2,F3,F4,F6, /Zoom
- **/A**dd Add (store) the displayed record (data on the screen) to the data base.
- **/C**opy Copy the “tagged” displayed fields (data on the screen) to other fields.
- **/D**elete Delete the displayed record (data on the screen) from the data base.

- **/I**nsert Insert (store) the displayed record (data on the screen) in sequence to the data base
- **/M**odify Modify (store) the displayed record (data on the screen) in the data base.
- **/N**ote Add a note to the displayed record (data on the screen).
- **/S**ort Sort on the selected field of the displayed record (data on the screen).
- **E**xecute This command invokes the appropriate process and prints a report on the results.
- **I**tems This command invokes the items page of the structure manager to allow the user to add or modify children EIN items.

Table 4.3.4-18. Transfer Machine Field Descriptions

Field Name	Data Type	Size	Description
PARENT EIN	String	14	This field is the Parent EIN for the installation/structure. The user may /Z, Zoom at this field to view the entire EIN data base.
DESTINATION LOCATION	String	6	Enter the destination location (DAAC) where the item is being transferred to.
DESTINATION BUILDING	String	6	Enter the destination building number where the item is being transferred to.
DESTINATION ROOM	String	6	Enter the room number where the item is being relocated to
REASON CODE	String	4	Enter the reason code for the transfer, The operator may /Z, Zoom to the reason code data base to choose the appropriate code.
CCR #	String	30	Enter the applicable CCR number.
TROUBLE TICKET	String	15	Enter the applicable trouble ticket number here.
NEW USER	Number	4	This field is the user code the parent was assigned to. The operator may /Z, Zoom at this field to view the User data base.

4.3.4.2.3.1.1 Item Page for EIN Transfer Machine

This screen is designed to designate which children of the Parent EIN are to be transferred. The operator enters a 'Y' in the appropriate field to signal the system to transfer the child with the parent.

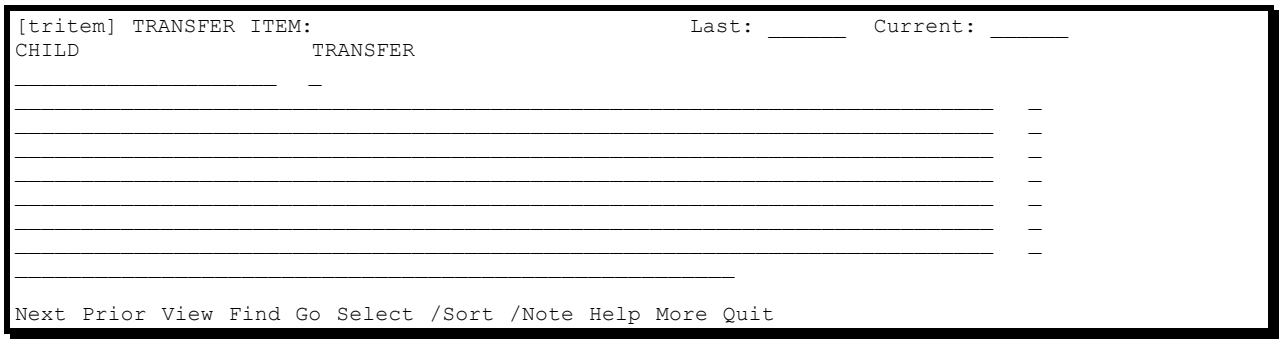


Figure 4.3.4-17. Item Page for EIN Transfer Machine CHUI

Bottom Line Commands:

None.

Table 4.3.4-19. Item Page for EIN Transfer Machine Field Descriptions

Field Name	Data Type	Size	Description
CHILD	String	14	Displayed is the CHILD EIN with the description of the item under
TRANSFER	String	1	Enter a 'Y' if the child is to be transferred.

4.3.4.2.3.2 EIN Archive Screen

This screen is designed to archive an item and its children, if necessary. This screen is used when items have failed and cannot be repaired. Each site should have a designated archive location code of <Site Code>AR. For example, the EDF site will have an archive location of EDFAR. The operator will complete the required fields and invoke the items page to pick which children, if any, are to be archived with the parent. When complete, the operator will execute the transaction and print a report.

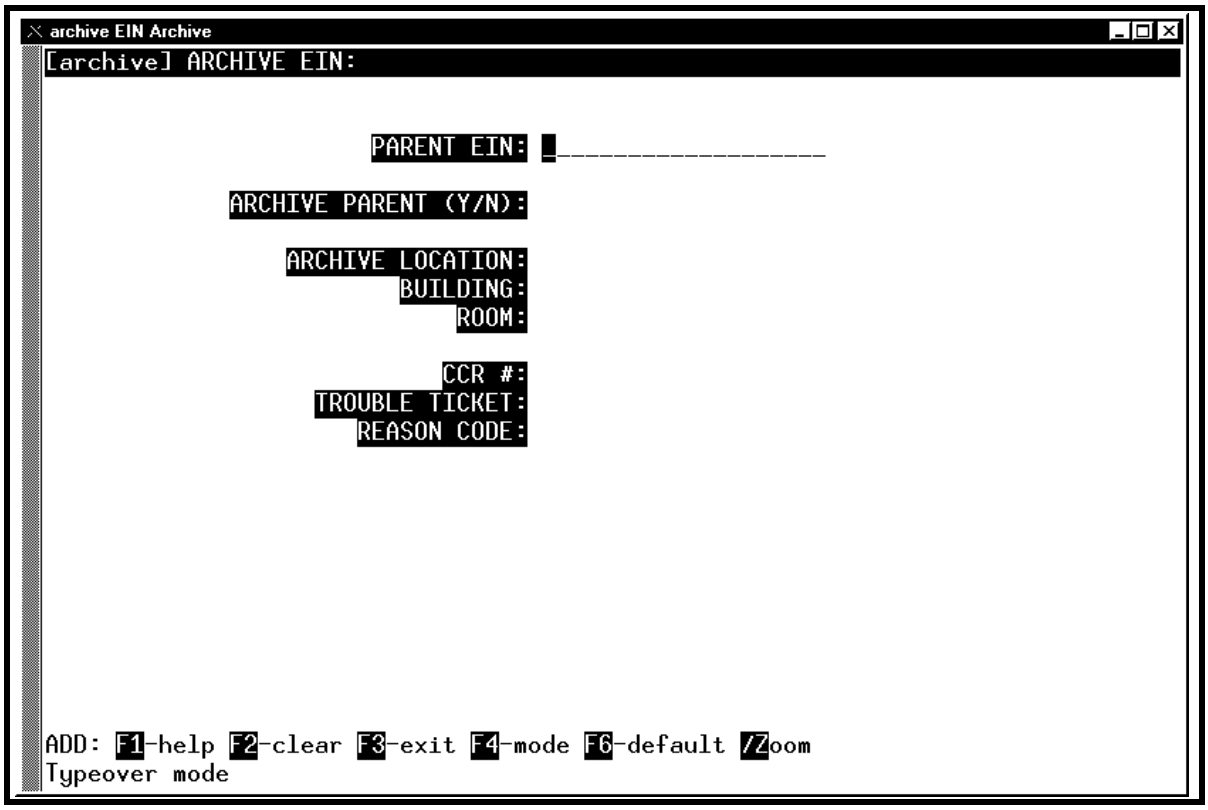


Figure 4.3.4-18. EIN Archive CHUI

Bottom Line Commands:

- ADD MODE: F1,F2,F3,F4,F6, /Zoom
- **/A**dd Add (store) the displayed record (data on the screen) to the data base.
- **/C**opy Copy the "tagged" displayed fields (data on the screen) to other fields.
- **/D**elete Delete the displayed record (data on the screen) from the data base.
- **/I**nsert Insert (store) the displayed record (data on the screen) in sequence to the data base
- **/M**odify Modify (store) the displayed record (data on the screen) in the data base.
- **/N**ote Add a note to the displayed record (data on the screen).
- **/S**ort Sort on the selected field of the displayed record (data on the screen).
- **E**xecute This command invokes the appropriate process and prints a report on the results.
- **I**tems This command invokes the items page of the structure manager to allow the user to add or modify children EIN items.

Table 4.3.4-20. EIN Archive Screen Item Field Descriptions

Field Name	Data Type	Size	Description
PARENT EIN	String	14	This field is the Parent EIN for the installation/structure. The user may /Z, Zoom at this field to view the entire EIN data base.
ARCHIVE PARENT	String	1	Enter Y if parent is to archived along with children
ARCHIVE LOCATION	String	6	Physical location of archived item
BUILDING	String	6	This field is used to designate the building number within the site where the item is.
ROOM	String	6	This field is used to enter the actual room number of where the item is or will be shipped to.
CCR #	String	30	Enter the applicable CCR number.
TROUBLE TICKET	String	15	Enter the applicable trouble ticket number here.
REASON CODE	String	4	Enter the reason code for the transfer, The operator may /Z, Zoom to the reason code data base to choose the appropriate code.

4.3.4.2.3.3 EIN Relocation

This screen is designed to relocate an EIN to another Parent item. The operator will enter the required data fields, invoke the items page to pick the children, if any, to be relocated with the parent.

There is a system-filled field for "Serial Number" so the user can be more certain of the part being moved.

There is a user-filled field "(P)ARENT OR (C)HILDREN." If the user supplies a "P" then the EIN specified on the top line will be relocated, with all of its children, to the new parent. If the user supplies a "C", then the parent specified on the top line will not be moved; instead, the user must use the "I" bottom-line command to go to the Items screen and choose which child items to move to the new parent. Note that the Items screen now also has the Serial Number for each Child Item.

Then, execute the transaction and print a report.

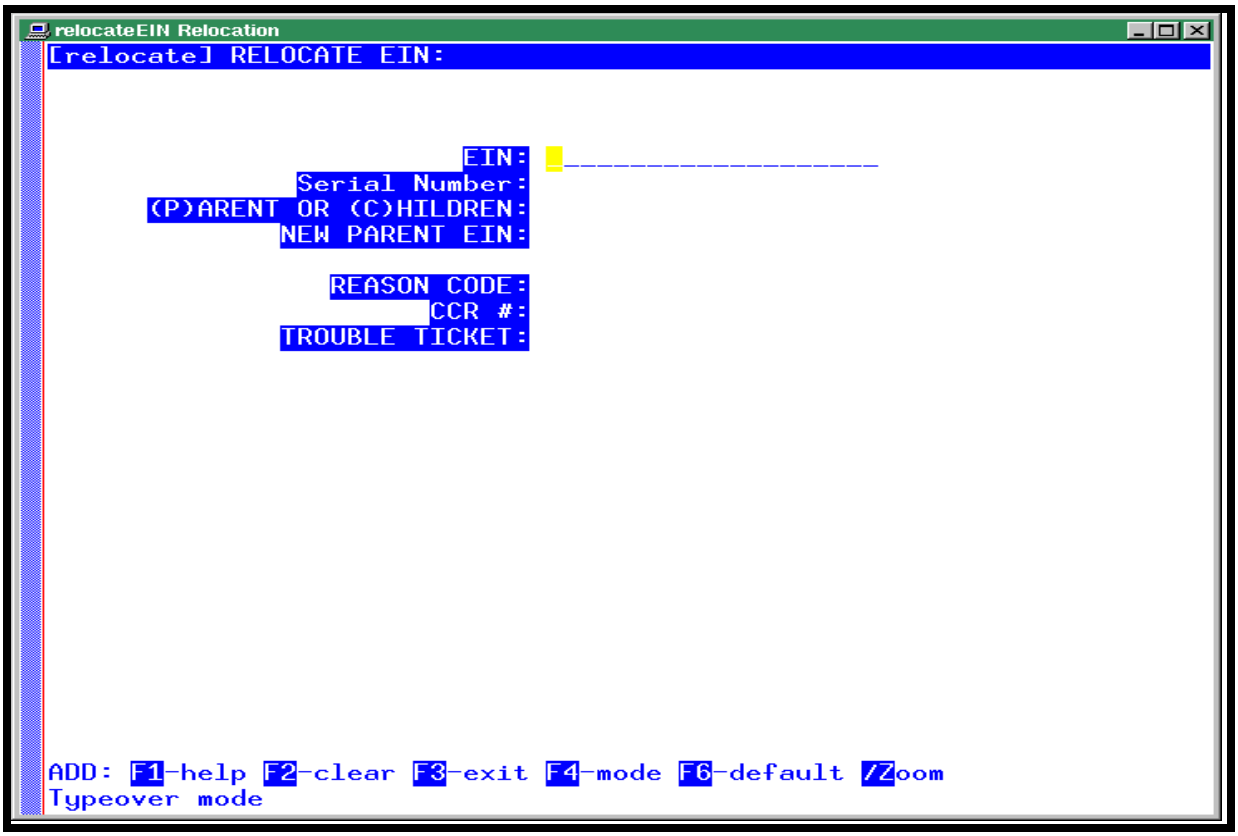


Figure 4.3.4-19. EIN Relocation CHUI

Bottom Line Commands:

- ADD MODE: F1,F2,F3,F4,F6, /Zoom
- /**A**dd Add (store) the displayed record (data on the screen) to the data base.
- /**C**opy Copy the "tagged" displayed fields (data on the screen) to other fields.
- /**D**elete Delete the displayed record (data on the screen) from the data base.
- /**I**nsert Insert (store) the displayed record (data on the screen) in sequence to the data base
- /**M**odify Modify (store) the displayed record (data on the screen) in the data base.
- /**N**ote Add a note to the displayed record (data on the screen).
- /**S**ort Sort on the selected field of the displayed record (data on the screen).
- **E**xecute This command invokes the appropriate process and prints a report on the results.

- /**I**tems This command invokes the items page of the structure manager to allow the user to add or modify children EIN items.

Table 4.3.4-21 provides a description of the field items for the EIN Relocation Screen.

Table 4.3.4-21. EIN Relocation Field Descriptions

Field Name	Data Type	Size	Description
EIN	String	14	This field is for the entry of the actual silver tag numbers attached to each item. If an item must be controlled by the ILM but does not receive a silver tag, the system creates an internal tag number which is prefixed with the Site abbreviation and contains a sequentially assigned number. Pressing RETURN at the field prompt automatically performs this internal assignment. This number, whether entered or assigned, must be used for all machine configuration operations as well as reporting and maintenance functions.
NEW PARENT EIN	String	14	Enter new parent ein for component being relocated
REASON CODE	String	4	Enter the reason code for the transfer, The operator may /Z, Zoom to the reason code data base to choose the appropriate code.
CCR #	String	30	Enter the applicable CCR number.
TROUBLE TICKET	String	15	Enter the applicable trouble ticket number here.

4.3.4.2.3.4 Inventory Transaction Query

This screen is designed to allow the operator to view all inventory transactions performed on items in the data base. The operator may sort and select on any field on the screen and print a report of sorted data, if desired.

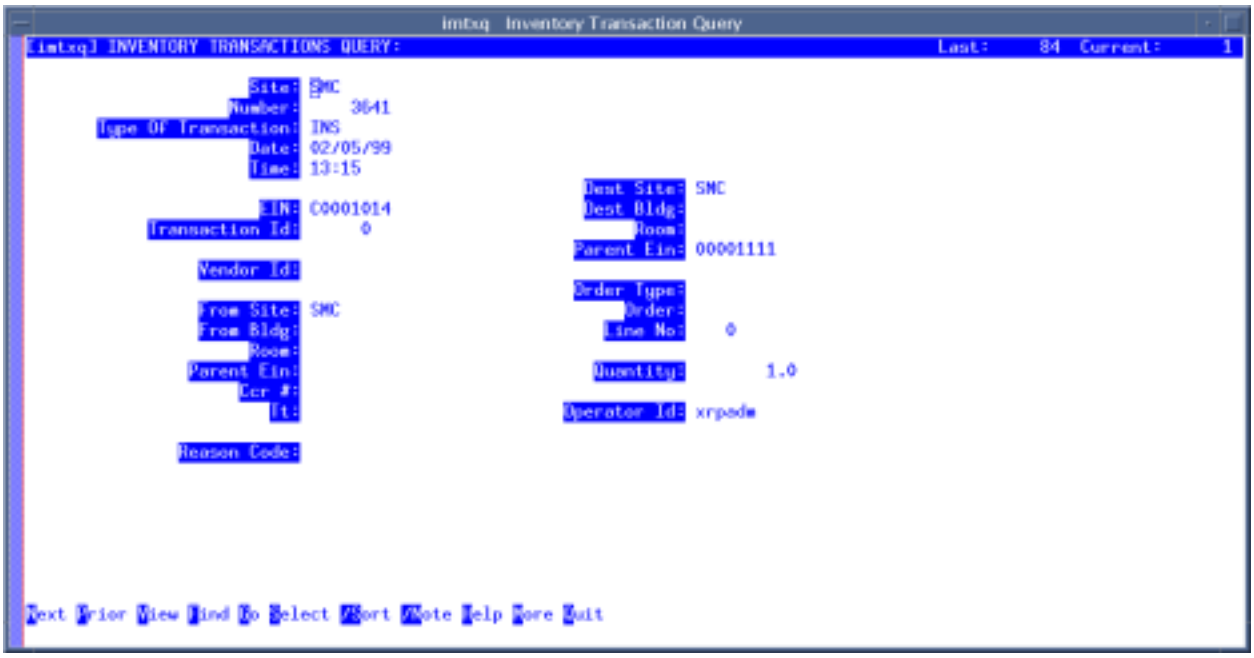


Figure 4.3.4-20. Inventory Transaction Query Screen

Bottom Line Commands:

- /**N**ote Add a note to the displayed record (data on the screen).
- /**S**ort Sort on the selected field of the displayed record (data on the screen).
- **V**iew Toggles between “form” or record display and “table” or list display.

The following table provides a description of the field items for the Inventory Transactions Query Screen.

Table 4.3.4-22. Inventory Transactions Query Item Field Descriptions (1 of 2)

Field Name	Data Type	Size	Description
Site	String	6	This field is used to designate the actual location or site of where the item is. The user may zoom to the Location screen to pick an appropriate code. NOTE : This data must be previously entered with screen Material Location Maintenance (imlocns).
Number	Number	8	Record number of database record being observed.
Type of Transaction	String	3	Code assigned to the type of transaction being performed
Date	String	2	Date for the query; e.g. transaction date.
Time	Time	2	Time for the query; e.g. transaction time
Dest Site	String	6	Destination site (DAAC code)
EIN	String	14	This field is for the entry of the actual silver tag numbers attached to each item. If an item must be controlled by the ILM but does not receive a silver tag, the system creates an internal tag number which is prefixed with the Site abbreviation and contains a sequentially assigned number. Pressing RETURN at the field prompt automatically performs this internal assignment. This number, whether entered or assigned, must be used for all machine configuration operations as well as reporting and maintenance functions.
Dest Bldg	String	6	Destination building number
Transaction Id	Number	6	Number assigned to a particular transaction
Room	String	6	This field is used to enter the actual room number of where the item is or will be shipped to.
Vendor Id	String	6	Vendor id code of equipment being queried
Order Type			
Order			
From Site	String	6	This field shows the original site of where the item resides
From Bldg	String	6	This field shows the original building number of where the item resides
Line No.	Number	4	Line number of the item if there is an order associated with the transaction
Room	String	6	This field is used to enter the actual room number of where the item is or will be shipped to.
Parent EIN	String	14	This field is the Parent EIN for the installation/structure. The user may /Z, Zoom at this field to view the entire EIN data base.
Quantity	Floating	10.1	Enter the quantity of the boxes having the same dimension and weight.
CCR #	String	30	Enter the applicable CCR number.
Quantity	Floating	10.1	Enter the quantity of the boxes having the same dimension and weight.

Table 4.3.4-22. Inventory Transactions Query Item Field Descriptions (2 of 2)

Field Name	Data Type	Size	Description
Tt	String	15	Enter the applicable trouble ticket number here
Operator Id	String	8	This field is the login ID of the user who added this item to the data base and is not modifiable by the user.
Reason Code	String	4	Enter the reason code for the transfer, The operator may /Z, Zoom to the reason code data base to choose the appropriate code.

4.3.4.2.4 ILM Report Menu

ILM Report Menu provides access to display and report controlled items into the data base. This section of ILM is mainly used for reporting purposes.

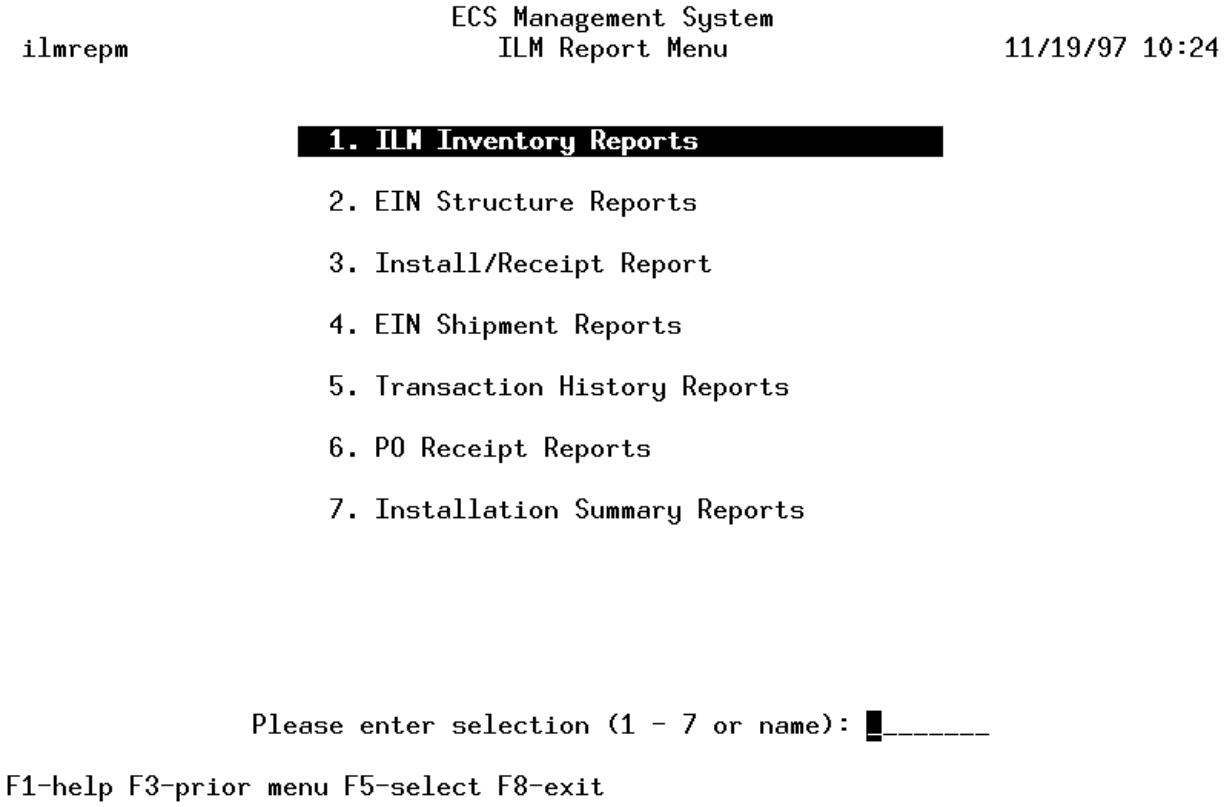


Figure 4.3.4-21. Report Menu CHUI

Figure 4.1.3-21 depicts the ILM full menu for the user with authorization to perform all the listed functions. When the user authorization is more limited, this menu offers less options. In this and the following sections, the content of the menus and the screen layouts cover the complete functionality although all of the functions will not be available to every user.

The ILM Report menu lets the users navigate to the following screens:

- **ILM Inventory Reports**; retrieves and prints all items contained within the designated location(s). A cost report is included displaying the actual cost of items selected.
- **EIN Structure Reports**; retrieves and prints all designated parents and components in a multi-level bill report.
- **Install/Receipt Report**; allows the user to print a report of a parent EIN configuration and send the hard copy to the receiving organization for sign off.
- **EIN Shipment Reports**; allows the user to print a report of a shipment that was performed previously within the system.
- **Transaction History Reports**; allows the user to print a history of all transactions contained within the system.
- **PO Receipt Reports**; retrieves and prints all receipts that have occurred for the designated PO, Vendor, or Date.
- **Installation Summary Reports**; retrieves and prints all receipts that have occurred for the designated PO, Vendor, or Date.

This menu allows the user to print a series of hard or soft copy reports of various information contained within the system.

The bottom line commands for each menu screen function the same as described for the main menu. Each data screen also has bottom line commands. The following is the a list of the standard commands available on many of the data screens. Any additional commands provided in on each data screen are described following the sample screen presented.

4.3.4.2.4.1 ILM Inventory Reports

This screen is designed to retrieves and prints all items contained within the designated location(s). A cost report is included displaying the actual cost of items selected.

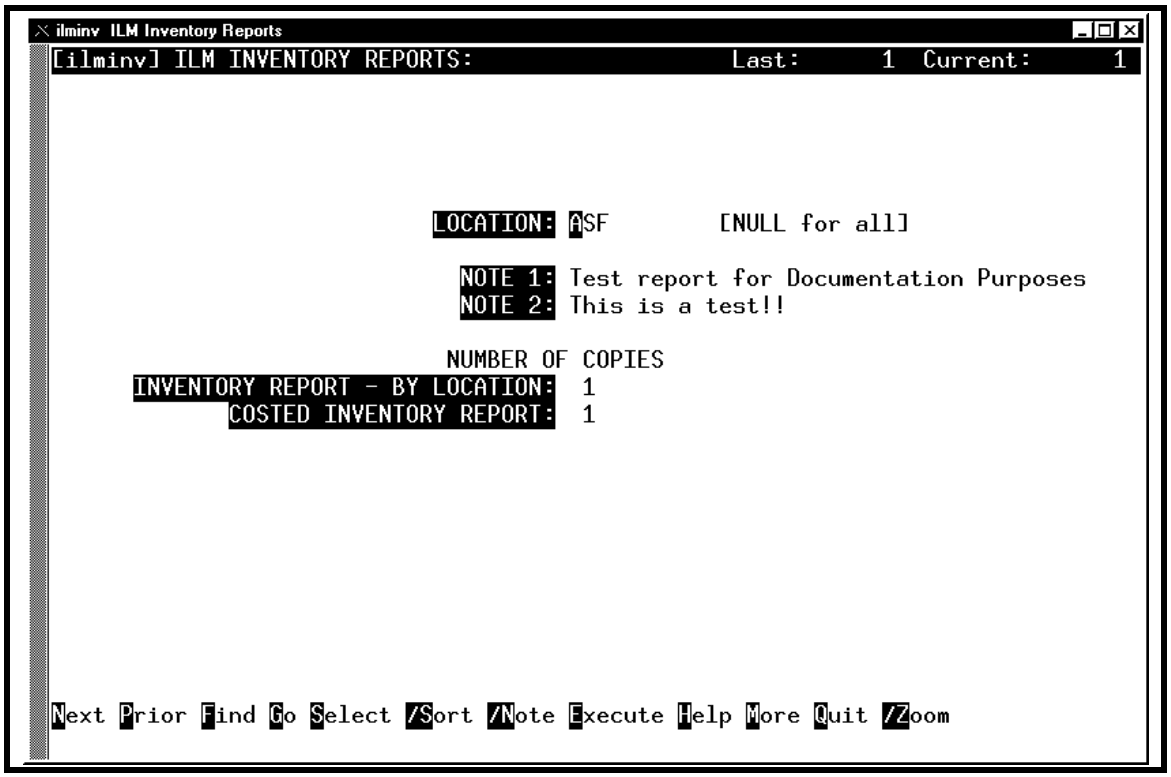


Figure 4.3.4-22. ILM Inventory Reports CHUI

Bottom Line Commands:

- ADD MODE: F1,F2,F3,F4,F6
- /**N**ote Add a note to the displayed record (data on the screen).
- /**S**ort Sort on the selected field of the displayed record (data on the screen).
- /**Z**oom Display a list of all the values of the selected field in the data base.
- **E**xecute This command invokes the appropriate process and prints a report on the results.

The following table provides a description of the fields contained on the previous screen for ILM Inventory Reports.

Table 4.3.4-23. ILM Inventory Reports Field Descriptions

Field Name	Data Type	Size	Description
Last and Current	String	35	indicates the last requisition entered and the current requisition you are reviewing.
LOCATION	String	8	This field is used to designate the actual location or site of where the item is. The user may zoom to the Location screen to pick an appropriate code. NOTE : This data must be previously entered with screen Material Location Maintenance (imlocns).
NOTE 1	String	60	This field is used to enter a 60-character note attached to this item.
NOTE 2	String	60	This field is used to enter a 2nd 60-character note attached to this item.
INVENTORY REPORT - BY LOCATION	Number	2	Enter number of copies of this report to generate.
COST INVENTORY REPORT	Number	1	Inventory Report containing cost information

4.3.4.2.4.2 EIN Structure Reports

This screen is designed to retrieve and print all designated parents and components in a multi-level bill report.

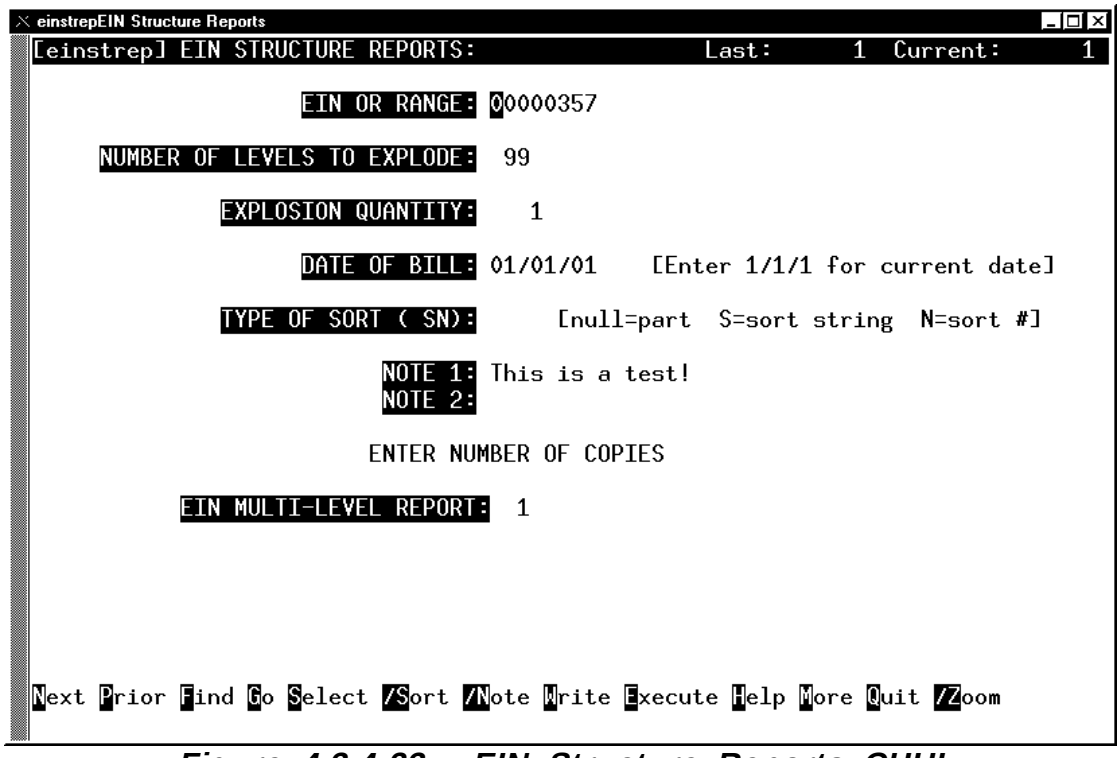


Figure 4.3.4-23. EIN Structure Reports CHUI

Bottom Line Commands:

- /**N**ote Add a note to the displayed record (data on the screen).
- /**S**ort Sort on the selected field of the displayed record (data on the screen).
- /**Z**oom Display a list of all the values of the selected field in the data base.
- **E**xecute This command invokes the appropriate process and prints a report on the results.
- **W**rite Saves the current record to a file designated by the operator.

The following table provides a description of the fields contained on the previous screen for EIN Structure Reports.

Table 4.3.4-24. EIN Structure Reports Field Descriptions

Field Name	Data Type	Size	Description
Last and Current	String	35	indicates the last requisition entered and the current requisition you are reviewing.
EIN OR RANGE	String	14	Field can accept two 14 character strings. E.g. EDF00000000001-EDF99999999999 for a range
NUMBER OF LEVELS TO EXPLODE	Number	2	Enter number of levels to display for a particular parent structure.
EXPLOSION QUANTITY	Number	2	Enter number of level to be displayed for parent ein structure
DATE OF BILL	Date	2	Date item was billed
TYPE OF SORT	String	1	Null = part, S=Sort string N = Sort number
NOTE 1	String	60	This field is used to enter a 60 character note attached to this item.
NOTE 2	String	60	This field is used to enter a 2nd 60 character note attached to this item.
EIN MULTI-LEVEL REPORT	Number	2	Enter the number of copies of this report to generate.

4.3.4.2.4.3 Install/Receipt Report

This screen is designed to allow the user to print a report of a parent EIN configuration and send the hard copy to the receiving organization for sign off.

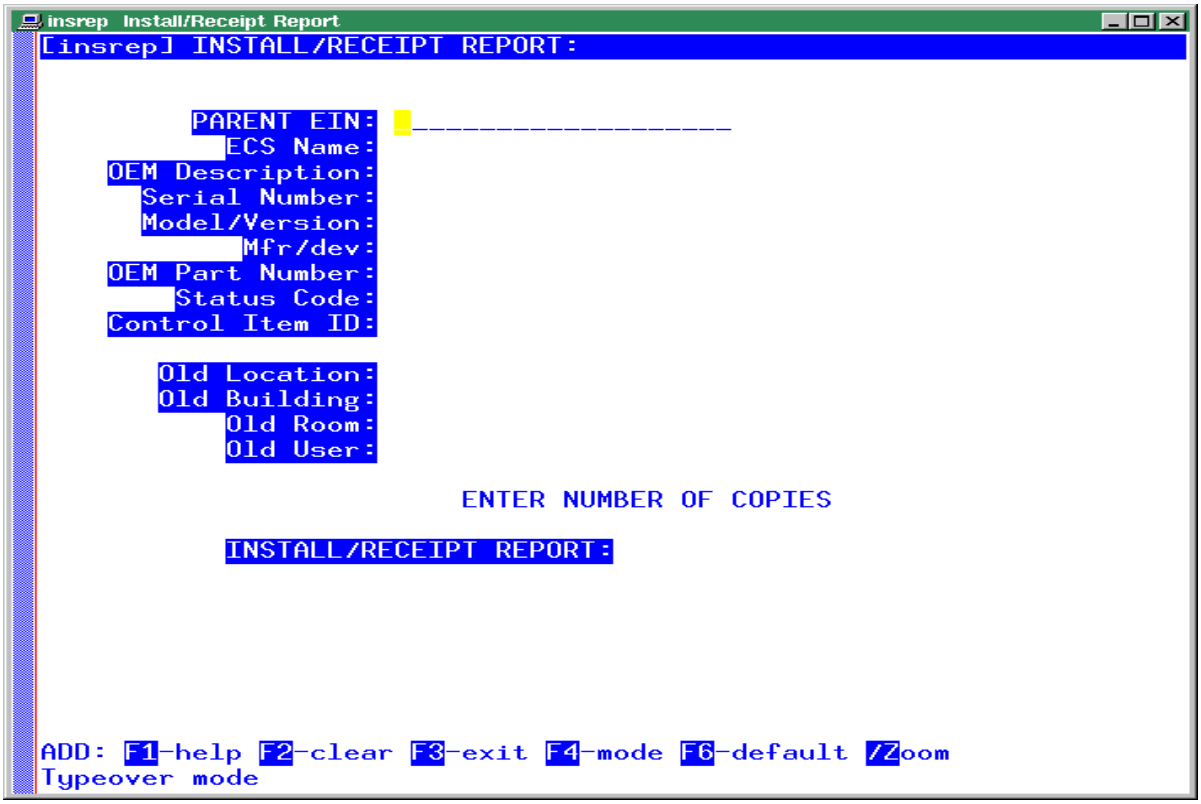


Figure 4.3.4-24. Install/Receipt Report CHUI

Bottom Line Commands:

- ADD MODE: F1,F2,F3,F4,F6, /Zoom
- /**N**ote Add a note to the displayed record (data on the screen).
- /**S**ort Sort on the selected field of the displayed record (data on the screen).
- /**Z**oom Display a list of all the values of the selected field in the data base.
- **E**xecute This command invokes the appropriate process and prints a report on the results.

The following table provides a description of the fields contained on the previous screen for Install/Receipt Reports.

Table 4.3.4-25. Install/Receipt Report Field Descriptions (1 of 2)

Field Name	Data Type	Size	Description
Last and Current	String	35	indicates the last requisition entered and the current requisition you are reviewing.
PARENT EIN	String	14	This field is the Parent EIN for the installation/structure. The user may /Z, Zoom at this field to view the entire EIN data base.
ECS Name	String	23	This field provides the ability for the user to enter a name the item will be known by.
OEM Description	String	30	This field reflects the description of the OEM PART NUMBER entered in the field above, but provides the ability for the user to modify it in the EIN file.
Serial Number	String	30	This field is for the entry of the serial number of the product being entered. If the item does not contain a serial number of it's own, the system will assign an internal number prefixed with the Site abbreviation and contain a sequentially assigned number. Pressing RETURN at the field prompt automatically performs this internal assignment
Model/Version	String	24	This field is used to enter the actual Model and or Version of the item. If the user had chosen a known OEM Part, this field will be written with the information from this file.
Mfr/dev	String	6	This field is used to enter the Manufacturer or Developer ID. The user may zoom to the appropriate data file and pick the desired code. NOTE: This data must be previously entered with screen Vendor Master Maintenance (vmasts).
OEM Part Number	String	34	This field is for the entry of the Manufacturer's or Vendor's part number. The user may perform a zoom to the OEM PART NUMBER screen (oempart) at this field to pick the appropriate item. NOTE: These OEM Part Numbers must be entered prior to the use in this screen. When an item is from this file is chosen, the information contained in the file is written to the EIN file.
Status Code	String	1	This field designates the status of the item and is controlled by transactions within the system.. The following codes are included : R - Received; S - Shipped; I - Installed; A - Archived;
Control Item ID	String	20	This field provides the ability for the user to point to an equivalent item contained within the BASELINE MANAGEMENT system. ILM will enter the BLM Control Item based on the OEM Part Number.
Old Location	String	6	Shows current location (DAAC) of where the item resides
Old Building	String	6	Shows current building number of where the item resides

Table 4.3.4-25. Install/Receipt Report Field Descriptions (2 of 2)

Field Name	Data Type	Size	Description
Old Room	String	6	Shows the current room number of where the item resides
Old User	String	10	Shows the current user for the item
INSTALL/RECEIPT REPORT	Number	2	Enter number of copies of this report to generate.

4.3.4.2.4.4 EIN Shipment Reports

This screen is designed to allow the user to print a report of a shipment that was performed previously within the system.

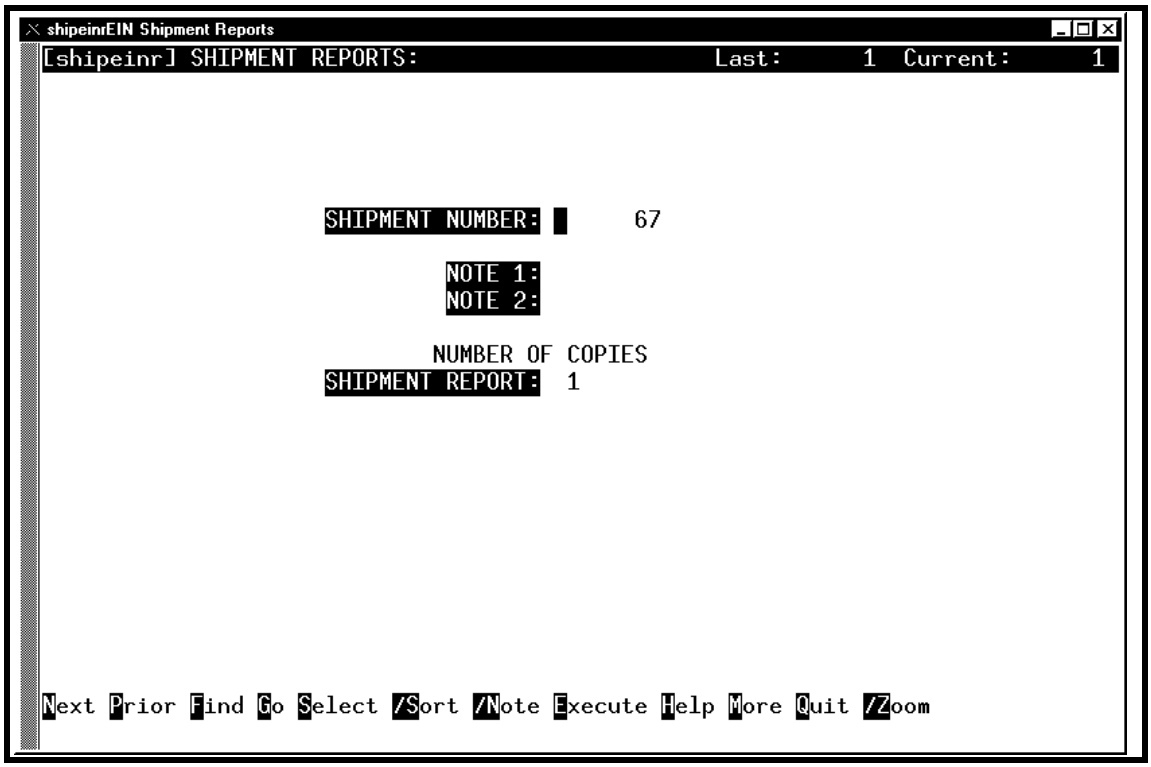


Figure 4.3.4-25. EIN Shipment Reports CHUI

Bottom Line Commands:

- **/N**ote Add a note to the displayed record (data on the screen).
- **/S**ort Sort on the selected field of the displayed record (data on the screen).

- /**Z**oom Display a list of all the values of the selected field in the data base.
- **E**xecute This command invokes the appropriate process and prints a report on the results.

The following table provides a description of the fields contained on the previous screen for EIN Shipment Reports.

Table 4.3.4-26. EIN Shipment Reports Field Descriptions

Field Name	Data Type	Size	Description
Last and Current	String	35	indicates the last requisition entered and the current requisition you are reviewing.
SHIPMENT NUMBER	Number	6	Sequential number assigned to a shipment
NOTE 1	String	60	This field is used to enter a 60 character note attached to this item.
NOTE 2	String	60	This field is used to enter a 2nd 60 character note attached to this item.
SHIPMENT REPORT	Number	2	Enter number of copies of report to print

4.3.4.2.4.5 Transaction History Reports

This screen is designed to allow the user to print a history of all transactions contained within the system.

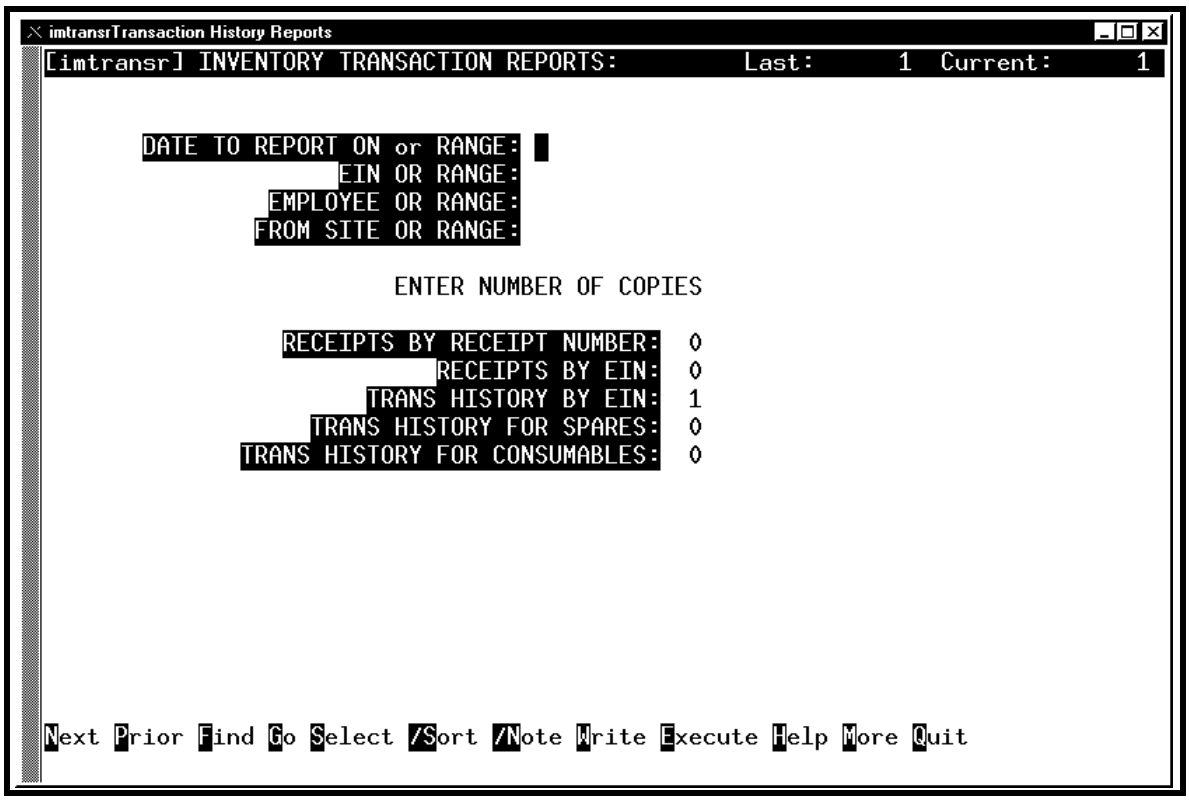


Figure 4.3.4-26. Transaction History Reports CHUI

Bottom Line Commands:

- /**N**ote Add a note to the displayed record (data on the screen).
- /**S**ort Sort on the selected field of the displayed record (data on the screen).
- **E**xecute This command invokes the appropriate process and prints a report on the results.
- **W**rite Saves the current record to a file designated by the operator.

The following table provides a description of the fields contained on the previous screen for Transaction History Reports.

Table 4.3.4-27. Transaction History Reports Field Descriptions

Field Name	Data Type	Size	Description
Last and Current	String	35	indicates the last requisition entered. and the current requisition you are reviewing.
DATE RANGE OF TRANSACTION	Date	2	Date or date range for desired transaction query
DATE TO REPORT ON OR RANGE	Date	2	Date or date range to report on
EIN OR RANGE	String	14	Field can accept two 14 character strings. E.g. EDF00000000001-EDF99999999999 for a range
EMPLOYEE OR RANGE	String	8	Enter employee id code to query on
FROM SITE OR RANGE	String	6	Enter site (DAAC) or range to report on
RECEIPTS BY RECEIPT NUMBER	Number	2	Request report of receipts in order by Receipt number
RECEIPTS BY EIN	Number	2	Request report of receipts in order by EIN
TRANS HISTORY BY EIN	Number	2	Enter number of copies of this report to generate.
TRANS HISTORY FOR CONSUMABLES	Number	2	Enter number of copies of this report to generate.

4.3.4.2.4.6 PO Receipt Reports

This screen is designed to retrieve and prints all receipts that have occurred for the designated PO, Vendor, or Date.

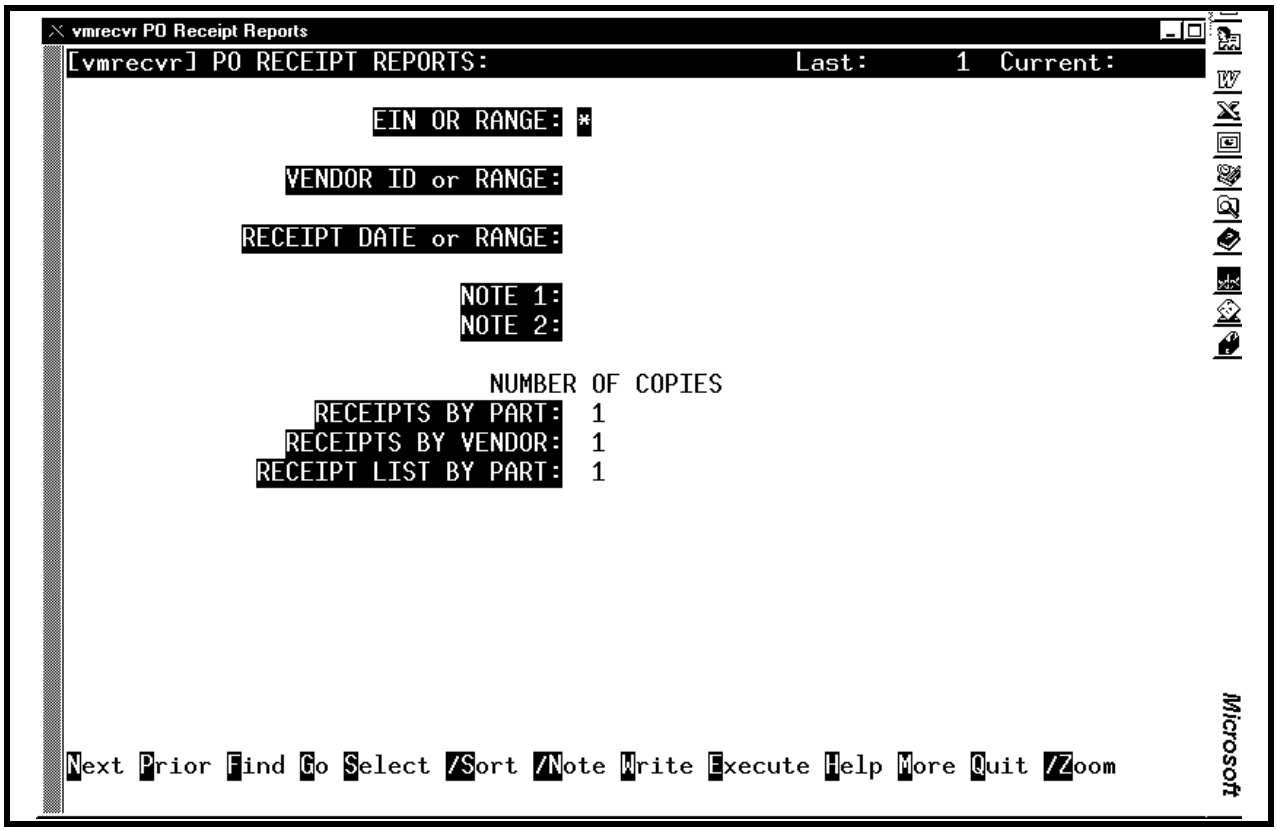


Figure 4.3.4-27. PO Receipt Reports CHUI

Bottom Line Commands:

- **/Z**oom Display a list of all the values of the selected field in the data base.

The following table provides a description of the fields contained on the previous screen for PO Receipt Reports.

Table 4.3.4-28. PO Receipt Reports Field Descriptions

Field Name	Data Type	Size	Description
Last and Current	String	35	indicates the last requisition entered and the current requisition you are reviewing.
EIN OR RANGE	String	14	Field can accept two 14 character strings. E.g. EDF00000000001-EDF99999999999 for a range
VENDOR ID OR RANGE	String	6	Vendor id code of equipment being queried
RECEIPT DATE OR RANGE	Date	2	Receipt date(s) to report.
NOTE 1	String	60	This field is used to enter a 60 character note attached to this item.
NOTE 2	String	60	This field is used to enter a 2nd 60 character note attached to this item.
RECEIPTS BY PART	Number	2	Enter 1 if report listing a parts by receipt is required.
RECEIPTS BY VENDOR	Number	2	Enter 1 if report listing receipts by vendor is required
RECEIPT LIST BY PART	Number	2	Enter 1 if report listing all receipts for a particular part number.

4.3.4.2.4.7 Installation Summary Reports

This screen is designed to retrieve and print all receipts that have occurred for the designated PO, Vendor, or Date.

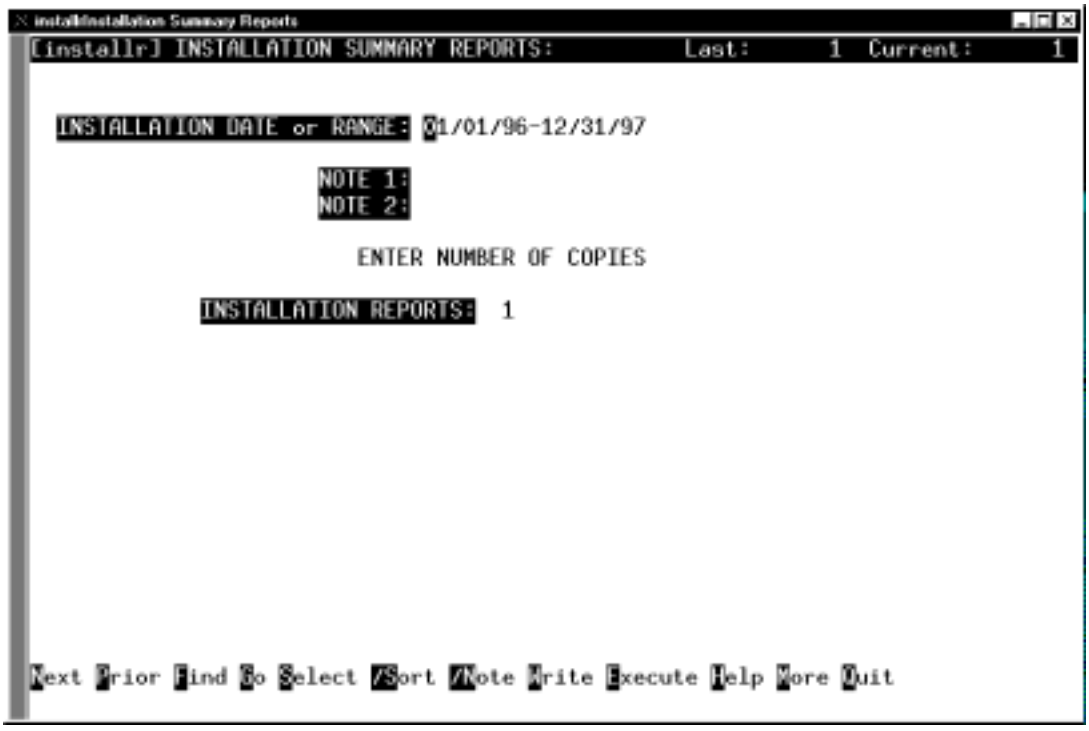


Figure 4.3.4-28. Installation Summary Reports CHUI

Bottom Line Commands:

- /Note Add a note to the displayed record (data on the screen).
- /Sort Sort on the selected field of the displayed record (data on the screen).
- Execute This command invokes the appropriate process and prints a report on the results.
- Write Saves the current record to a file designated by the operator.

The following table provides a description of the fields contained on the previous screen for Installation Summary Reports.

Table 4.3.4-29. Installation Summary Reports Field Descriptions

Field Name	Data Type	Size	Description
Last	String	35	indicates the last requisition entered and the current requisition you are reviewing.
INSTALLATION DATE OR RANGE	MULTI-FIELD		Enter installation date or range of dates to report on as one or two D,2 fields.
NOTE 1	String	60	This field is used to enter a 60 character note attached to this item.
NOTE 2	String	60	This field is used to enter a 2nd 60 character note attached to this item.
INSTALLATION REPORTS	Number	4	This field is the installation report number assigned by the system when an installation had occurred and as reflected from the EIN Record for the Parent EIN.

4.3.4.2.5 Inventory Ordering Menu

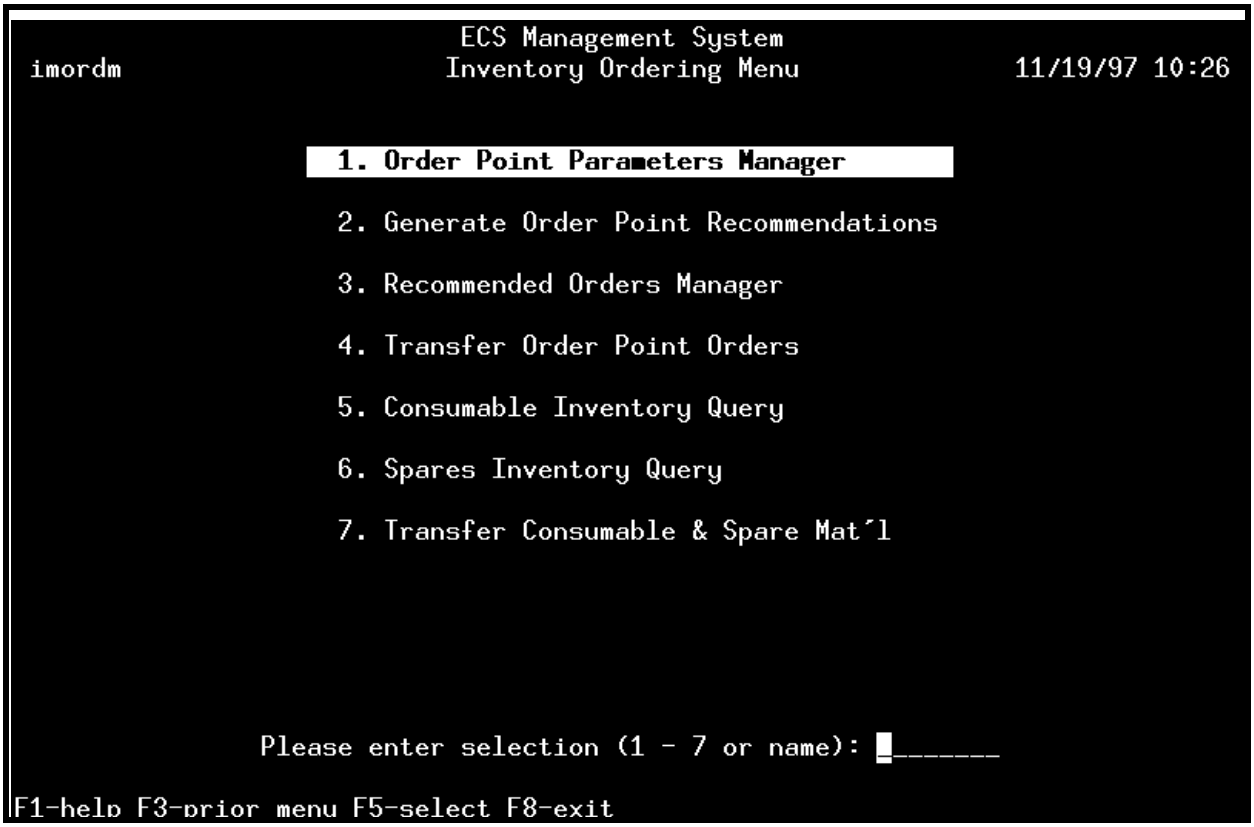


Figure 4.3.4-29. Inventory Ordering Menu CHUI

The following process allows the user to designate and control some OEM items with the Order Point methodology.

Figure 4.3.4-29 depicts the ILM full menu for the user with authorization to perform all the listed functions. When the user authorization is more limited, this menu offers less options. In this and the following sections, the content of the menus and the screen layouts cover the complete functionality although all of the functions will not be available to every user.

The ILM **Inventory Ordering** menu allows the users to navigate to the following screens:

- **Order Point Parameters Manager;** allows the user to enter new items to be Order Point controlled. The user has the option when in Add mode to zoom to the data base of OEM items and tag one.
- **Generate Order Point Recommendations**; examines all items designated as Order Point control. examines the level of inventory for each item, and generates a recommended order for each item where the inventory quantity has fallen below the control values.

- **Recommended Orders Manager;** For each item to be transferred to the requisition or work order files, change the status to "T"..
- **Transfer Order Point Orders**; transfers all recommendations whose status has been set to "T" to the Requisition file, if the item is coded as a Buy item, or to the Work Order file, if the item is coded as a Make item.
- **Consumable Inventory Query;** This screen allows the user to view the inventory for only those items designated as consumable.
- **Spares Inventory Query;** This screen allows the user to view the inventory for only those items designated as spares.
- **Transfer Consumable & Spare Matíl**; allows the user to transfer items designated as Consumable or Spares from one inventory location to another location or to become part of a machine structure.

These are the **Inventory Ordering** data entry, query, reporting screens. The following sections contain descriptions of each menus and its data screens.

The bottom line commands for each menu screen function the same as described for the main menu. Each data screen also has bottom line commands. The following is a list of the standard commands available on many of the data screens. Any additional commands provided on each data screen are described following the sample screen presented.

4.3.4.2.5.1 Order Point Parameters Manager

This screen is designed to allows the user to enter new items to be Order Point controlled. The user has the option when in Add mode to zoom to the data base of OEM items and tag one.

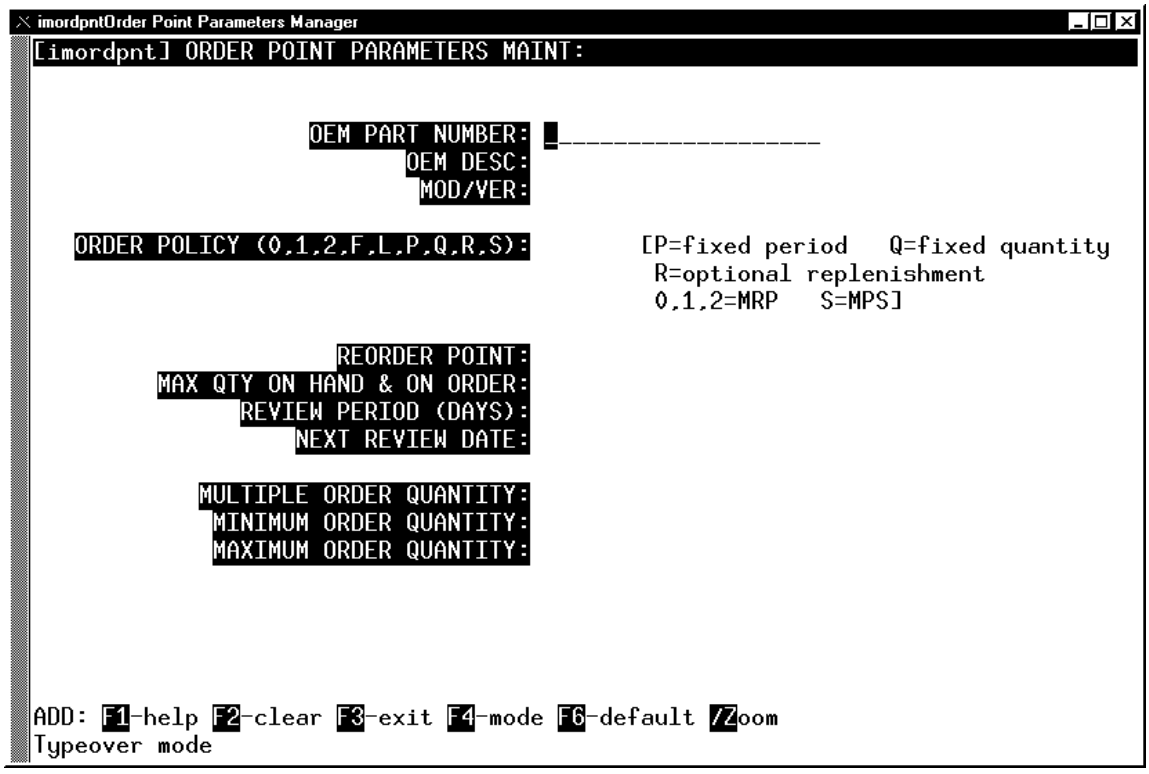


Figure 4.3.4-30. Order Point Parameters Manager CHUI

Bottom Line Commands:

- ADD MODE: F1,F2,F3,F4,F6, /Zoom
- **/N**ote Add a note to the displayed record (data on the screen).
- **/S**ort Sort on the selected field of the displayed record (data on the screen).
- **/Z**oom Display a list of all the values of the selected field in the data base.
- **V**iew Toggles between “form” or record display and “table” or list display.

The following table provides a description of the fields contained on the previous screen for Order Point Parameters Manager.

Table 4.3.4-30. Order Point Parameters Manager Field Descriptions

Field Name	Data Type	Size	Description
Last and Current	String	35	indicates the last requisition entered and the current requisition you are reviewing.
OEM PART NUMBER	String	34	This field is for the entry of the Manufacturer's or Vendor's part number. The user may perform a zoom to the OEM PART NUMBER screen (oempart) at this field to pick the appropriate item. NOTE: These OEM Part Numbers must be entered prior to the use in this screen. When an item is from this file is chosen, the information contained in the file is written to the EIN file.
OEM DESC	String	40	This field is the OEM Description reflected from the EIN Record for the Parent EIN.
MOD/VER	String	24	This field is used to enter the actual Model and or Version of the item. If the user had chosen a known OEM Part, this field will be written with the information from this file.
ORDER POLICY	String	1	Enter type of ordering policy such as P = Fixed period, Q = Fixed quantity etc.
REORDER POINT	Floating	10.1	Quantity at which reorder of item should occur
MAX. QTY ON HAND AND ON ORDER	Floating	10.1	Maximum number of items in stock plus the number on order
REVIEW PERIOD	Number	3	Number of days to perform inventory check
NEXT REVIEW DATE	Date	2	Date of next inventory quantity check
MULTIPLE ORDER QUANTITY	Floating	9.1	Number of items to order in a multiple parts/items order
MINIMUM ORDER QUANTITY	Floating	9.1	Minimum number of items to order or reorder
MAXIMUM ORDER QUANTITY	Floating	9.1	Maximum number of items to order or reorder

4.3.4.2.5.2 Generate Order Point Recommendations

This screen is designed to examine all items designated as Order Point control. It examines the level of inventory for each, and generates a recommended order for each item where the inventory quantity has fallen below the control values.

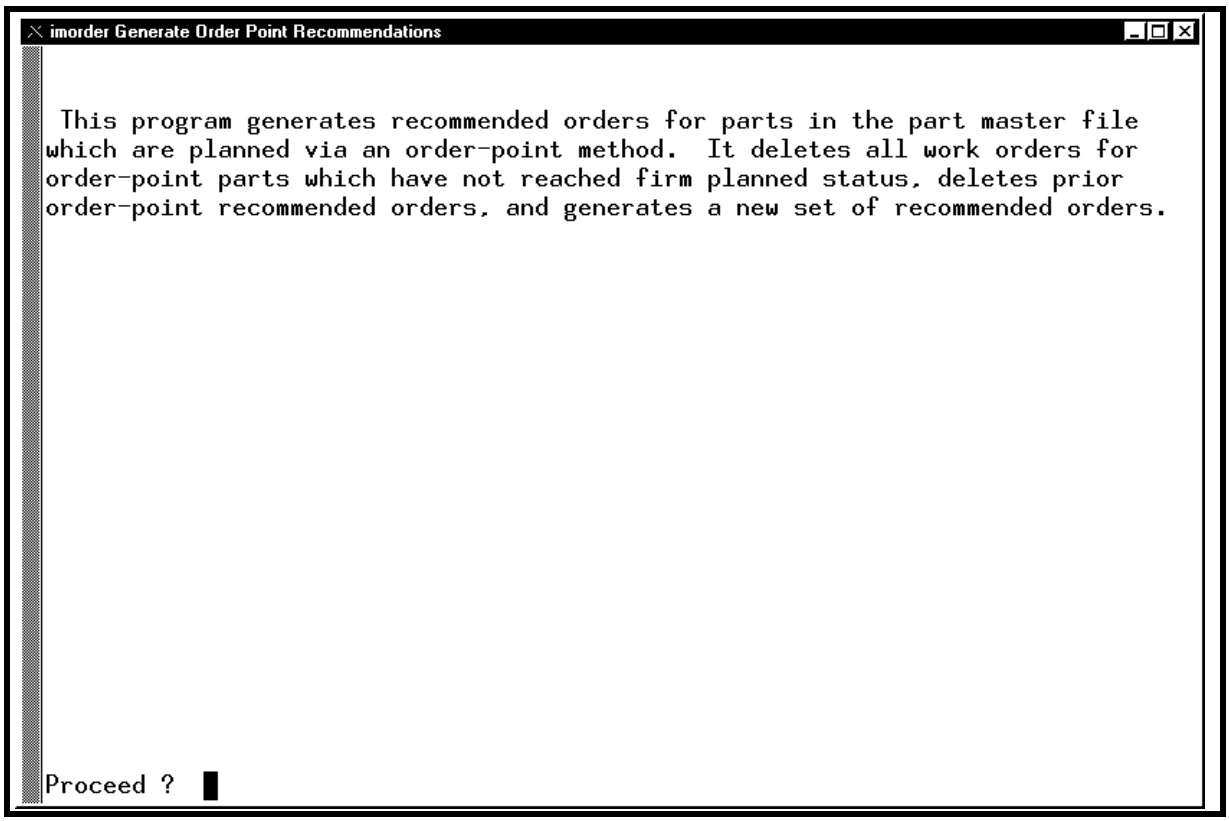


Figure 4.3.4-31. Generate Order Point Recommendations CHUI

Bottom Line Commands:

- **P**roceed**?** Y = continue with the process, N = quit. The default is "Y".

The following table describes an option for the user to either proceed or cancel a function of the tool.

Table 4.3.4-31. Generate Order Point Recommendations Field Descriptions

Field Name	Data Type	Size	Description
Proceed?	String	1	Y or N to continue the process

4.3.4.2.5.3 Recommended Orders Manager

This screen is designed to change the status to "T" for each item to be transferred to the requisition or work order files.

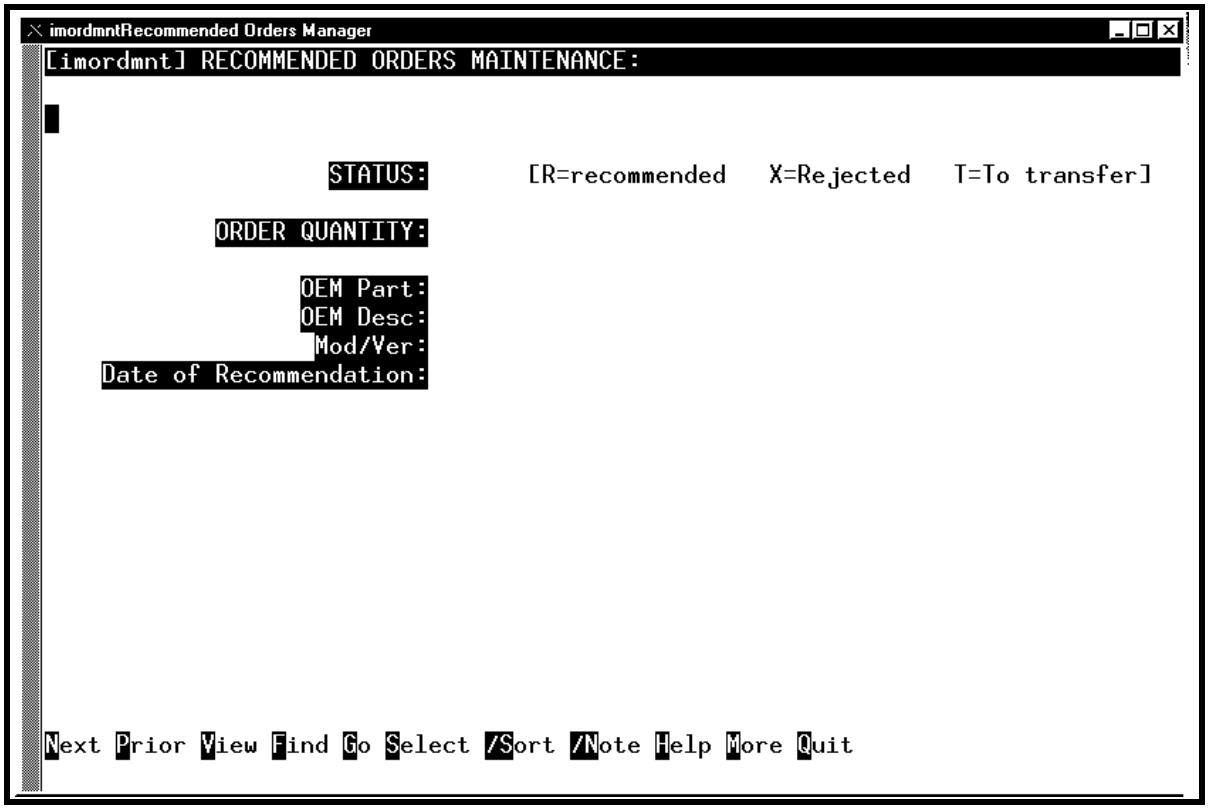


Figure 4.3.4-32. Recommended Orders Manager CHUI

Bottom Line Commands:

- **/C**opy Copy the "tagged" displayed fields (data on the screen) to other fields.
- **/M**odify Modify (store) the displayed record (data on the screen) in the data base.
- **/N**ote Add a note to the displayed record (data on the screen).
- **/S**ort Sort on the selected field of the displayed record (data on the screen).
- **V**iew Toggles between "form" or record display and "table" or list display.

The following table provides a description of the fields contained on the previous screen for Recommend Orders Manager.

Table 4.3.4-32. Recommend Orders Manager Field Descriptions

Field Name	Data Type	Size	Description
Last and Current	String	35	indicates the last requisition entered and the current requisition you are reviewing.
Status	String	1	Status code for TERMS CODE
Order Quantity	Floating	9.1	Quantity to order
OEM Part	String	34	This field is the OEM part number reflected from the EIN record of the child.
OEM Desc	String	40	This field is the OEM Description reflected from the EIN Record for the Parent EIN.
Mod/Ver	String	24	This field is used to enter the actual Model and or Version of the item. If the user had chosen a known OEM Part, this field will be written with the information from this file.
Date of Recom-mendation	Date	2	Date the recommendation was recorded

4.3.4.2.5.4 Transfer Order Point Orders

This screen is designed to transfer all recommendations whose status has been set to "T" to the Requisition file, if the item is coded as a Buy item, or to the Work Order file, if the item is coded as a Make item.

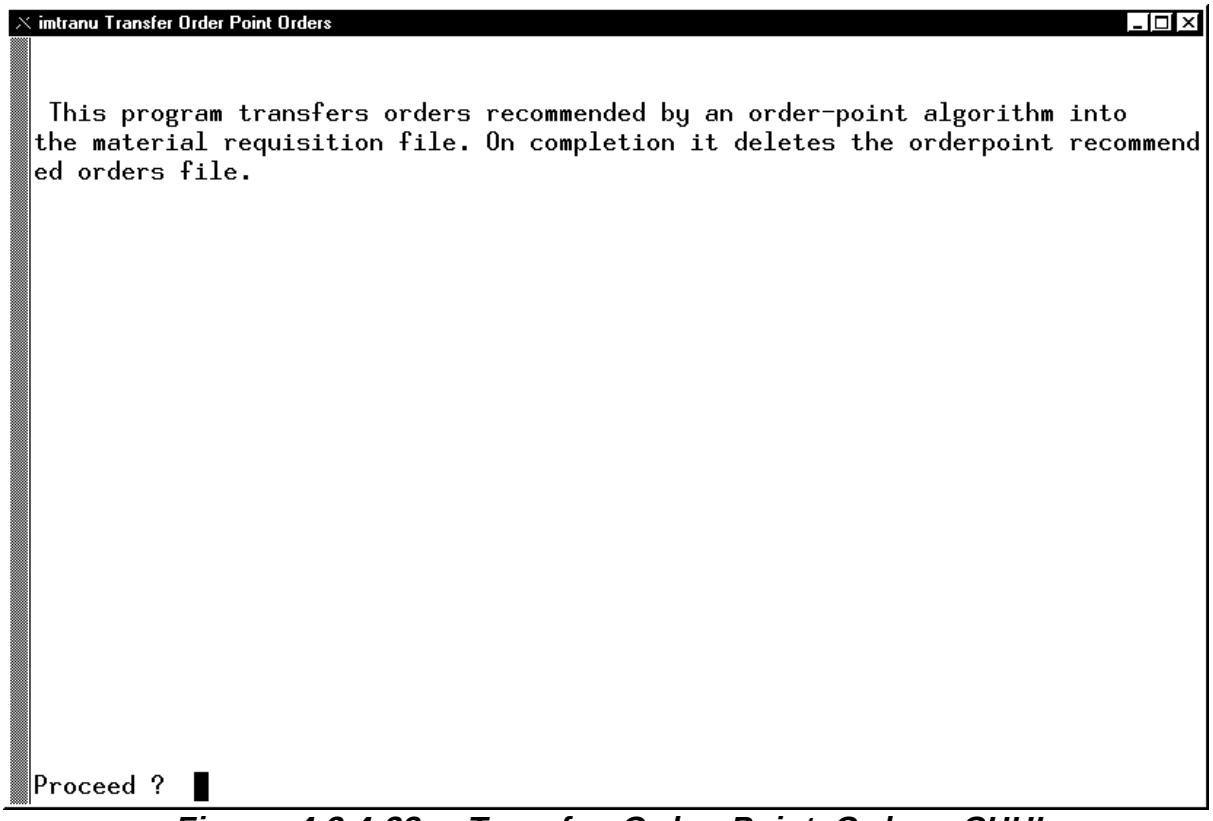


Figure 4.3.4-33. Transfer Order Point Orders CHUI

Bottom Line Commands:

- **P**roceed**?** Y = continue with the process, N = quit. The default is "Y".

The following table provides a description of the fields contained on the previous screen for Transfer Order Point Orders.

Table 4.3.4-33. Transfer Order Point Orders Field Descriptions

Field Name	Data Type	Size	Description
Proceed	String	1	Enter Y or N to proceed with process.

4.3.4.2.5.5 Consumable Inventory Query

This screen allows the user to view the inventory for only those items designated as consumable.

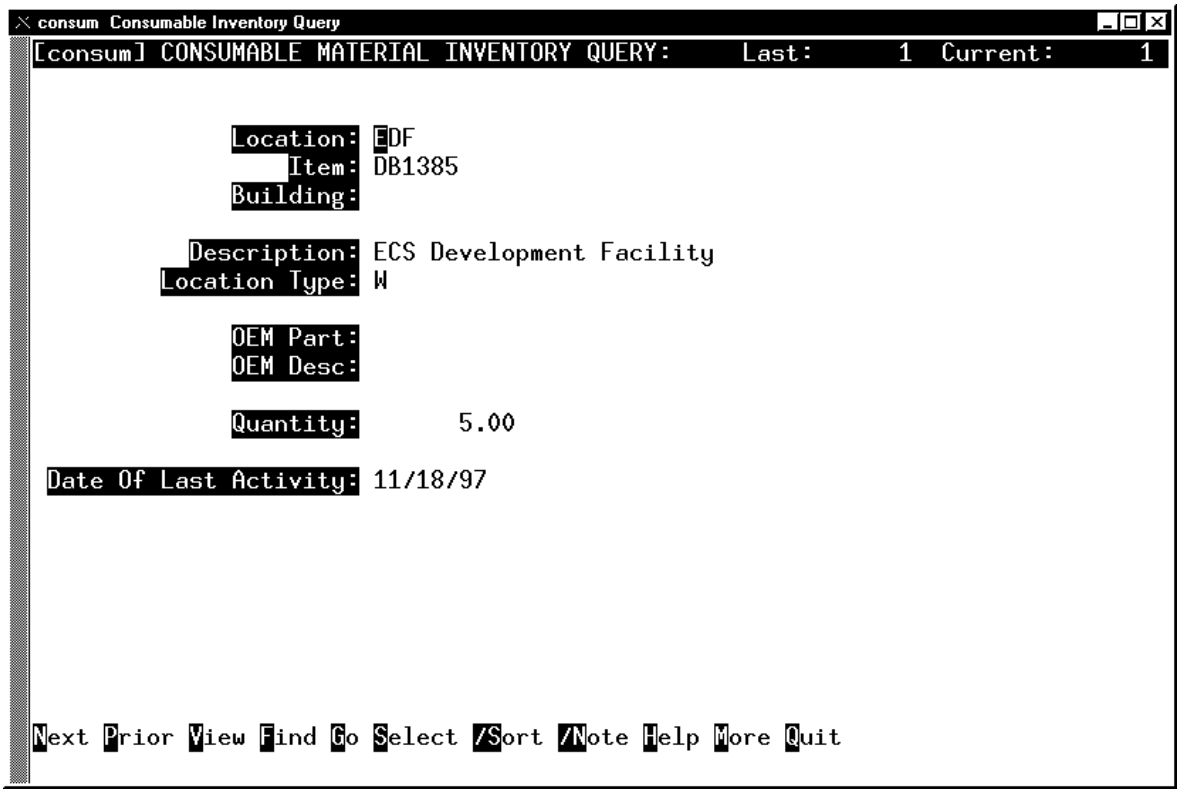


Figure 4.3.4-34. Consumable Inventory Query CHUI

Bottom Line Commands:

- **/N**ote Add a note to the displayed record (data on the screen).
- **/S**ort Sort on the selected field of the displayed record (data on the screen).
- **V**iew Toggles between "form" or record display and "table" or list display.

The following table provides a description of the fields contained on the previous screen for Consumable Inventory Query.

Table 4.3.4-34. Consumable Inventory Query Field Descriptions

Field Name	Data Type	Size	Description
Last and Current	String	35	indicates the last requisition entered and the current requisition you are reviewing.
Location	String	8	This field is used to designate the actual location or site of where the item is. The user may zoom to the Location screen to pick an appropriate code. NOTE : This data must be previously entered with screen Material Location Maintenance (imlocns).
OEM Part Number	String	34	This field is for the entry of the Manufacturer's or Vendor's part number. The user may perform a zoom to the OEM PART NUMBER screen (oempart) at this field to pick the appropriate item. NOTE: These OEM Part Numbers must be entered prior to the use in this screen. When an item is from this file is chosen, the information contained in the file is written to the EIN file.
Building	String	6	This field is used to designate the building number within the site where the item is.
Description	String	30	is an auto filled field based upon your selection of the OEM PART number
Location Type	String	1	Specifies the material application at the site: Null or S = stock, R = received, N = non-nettable, W = work center, A = archive.
OEM Desc	String	40	This field is the OEM Description reflected from the EIN Record for the Parent EIN.
Quantity	Floating	10.1	Enter the quantity of the boxes having the same dimension and weight.
Date of Last Activity	Date	2	Date of last activity performed on an item

4.3.4.2.5.6 Spares Inventory Query

This screen allows the user to view the inventory for only those items designated as spares.

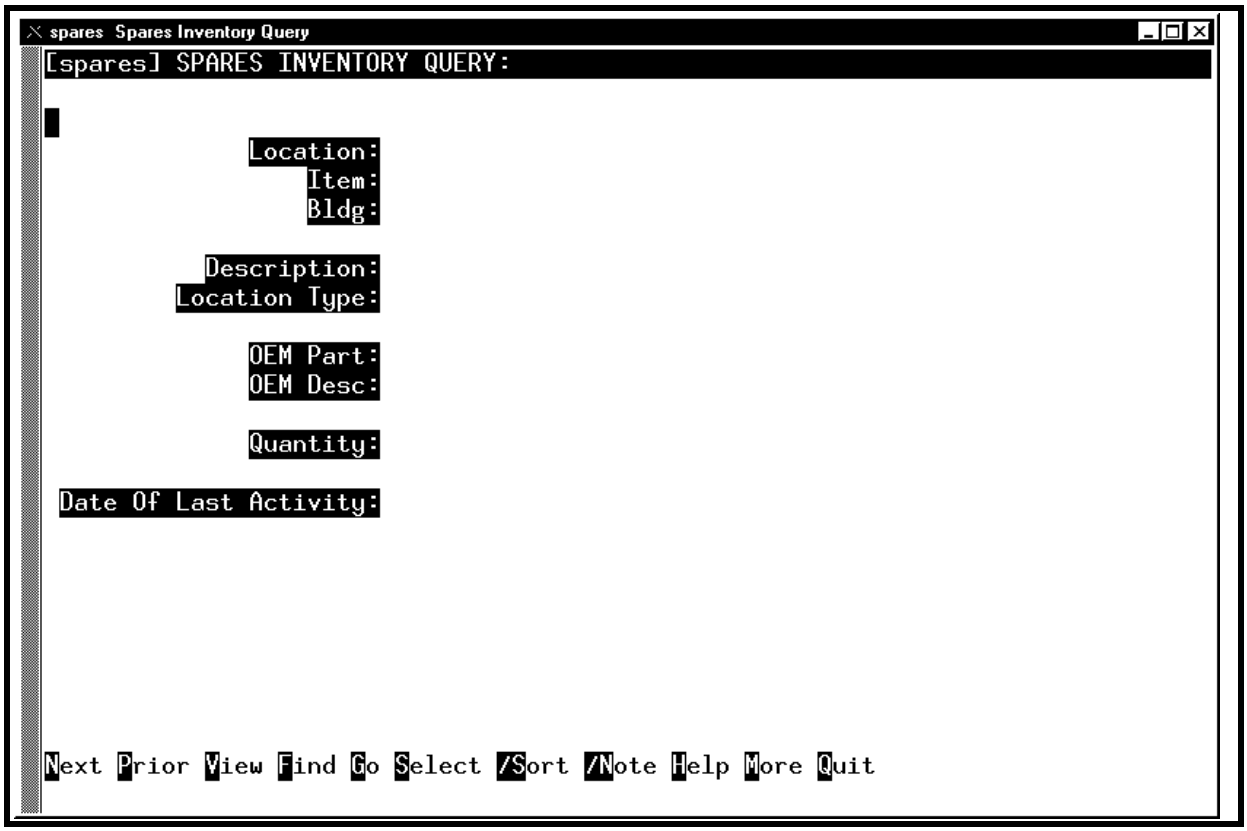


Figure 4.3.4-35. Spares Inventory Query CHUI

Bottom Line Commands:

- **/N**ote Add a note to the displayed record (data on the screen).
- **/S**ort Sort on the selected field of the displayed record (data on the screen).
- **V**iew Toggles between "form" or record display and "table" or list display.

The following table provides a description of the fields contained on the previous screen for Spares Inventory Query.

Table 4.3.4-35. Spares Inventory Query Field Description

Field Name	Data Type	Size	Description
Last and Current	String	35	indicates the last requisition entered and the current requisition you are reviewing.
Location	String	8	This field is used to designate the actual location or site of where the item is. The user may zoom to the Location screen to pick an appropriate code. NOTE : This data must be previously entered with screen Material Location Maintenance (imlocns).
Bldg	String	6	This field is used to designate the building number within the site where the item is
Description	String	30	is an auto filled field based upon your selection of the OEM PART number
Location Type	String	1	Specifies the material application at the site: Null or S = stock, R = received, N = non-nettable, W = work center, A = archive.
OEM Part	String	34	This field is for the entry of the Manufacturer's or Vendor's part number. The user may perform a zoom to the OEM PART NUMBER screen (oempart) at this field to pick the appropriate item. NOTE: These OEM Part Numbers must be entered prior to the use in this screen. When an item is from this file is chosen, the information contained in the file is written to the EIN file.
OEM Desc	String	40	This field is the OEM Description reflected from the EIN Record for the Parent EIN.
Quantity	Floating	10.1	Enter the quantity of the boxes having the same dimension and weight.
Date of Last Activity	Date	2	Date of last activity performed on an item

4.3.4.2.5.7 Transfer Consumable & Spare Mat'l

This screen is designed to allow the user to transfer items designated as Consumable or Spares from an inventory location to another location or to become part of a machine structure.

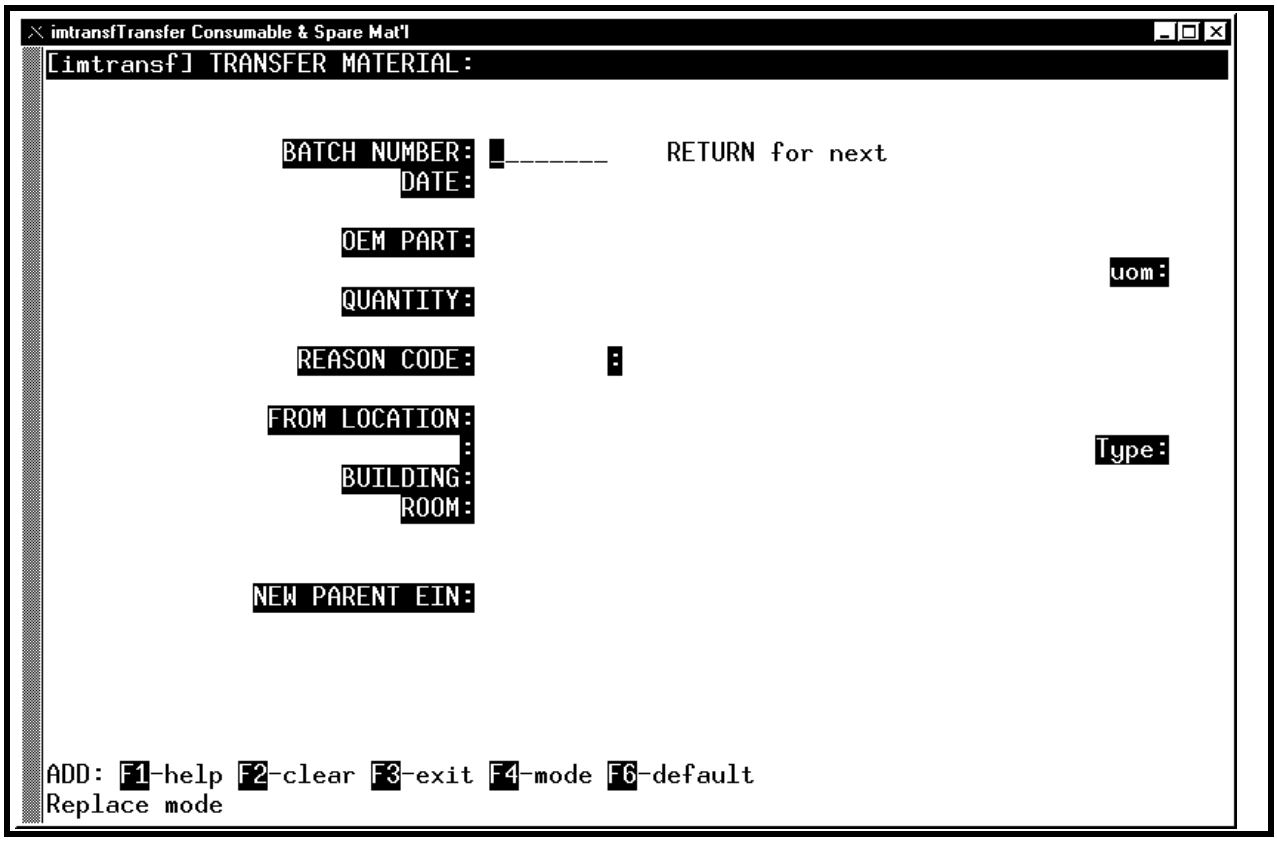


Figure 4.3.4-36. Transfer Consumable & Spare Mat'l CHUI

Bottom Line Commands:

- ADD MODE: F1,F2,F3,F4,F6
- **/N**ote Add a note to the displayed record (data on the screen).
- **/S**ort Sort on the selected field of the displayed record (data on the screen).
- **C**heck This command will check available quantities against quantities input by user.
- **E**xecute This command invokes the appropriate process and prints a report on the results.
- **V**iew Toggles between "form" or record display and "table" or list display.

The following table provides a description of the fields contained on the previous screen for Transfer Consumable & Spare Material.

Table 4.3.4-36. Transfer Consumable & Spare Mat'l Field Descriptions

Field Name	Data Type	Size	Description
Last and Current	String	35	indicates the last requisition entered and the current requisition you are reviewing.
BATCH NUMBER	Number	8	This is the system assigned batch number for the group of transactions the user enters, when transferring consumables and spares.
DATE	String	2	Date for the query; e.g. transaction date.
OEM PART	String	34	This field is the OEM part number reflected from the EIN record of the child.
QUANTITY	Floating	10.1	Enter the quantity of the boxes having the same dimension and weight.
REASON CODE	String	4	Enter the reason code for the transfer, The operator may /Z, Zoom to the reason code data base to choose the appropriate code.
FROM LOCATION	String	6	This field shows the original location of where the item resides
BUILDING	String	6	This field is used to designate the building number within the site where the item is.
ROOM	String	6	This field is used to enter the actual room number of where the item is or will be shipped to.
BUILDING	String	6	This field is used to designate the building number within the site where the item is.
NEW PARENT EIN	String	14	Ennter the EIN that the material is being assigned to.

4.3.4.2.6 PO/Receiving Menu

This section of the ILM is mainly used for procurement and property receiving.

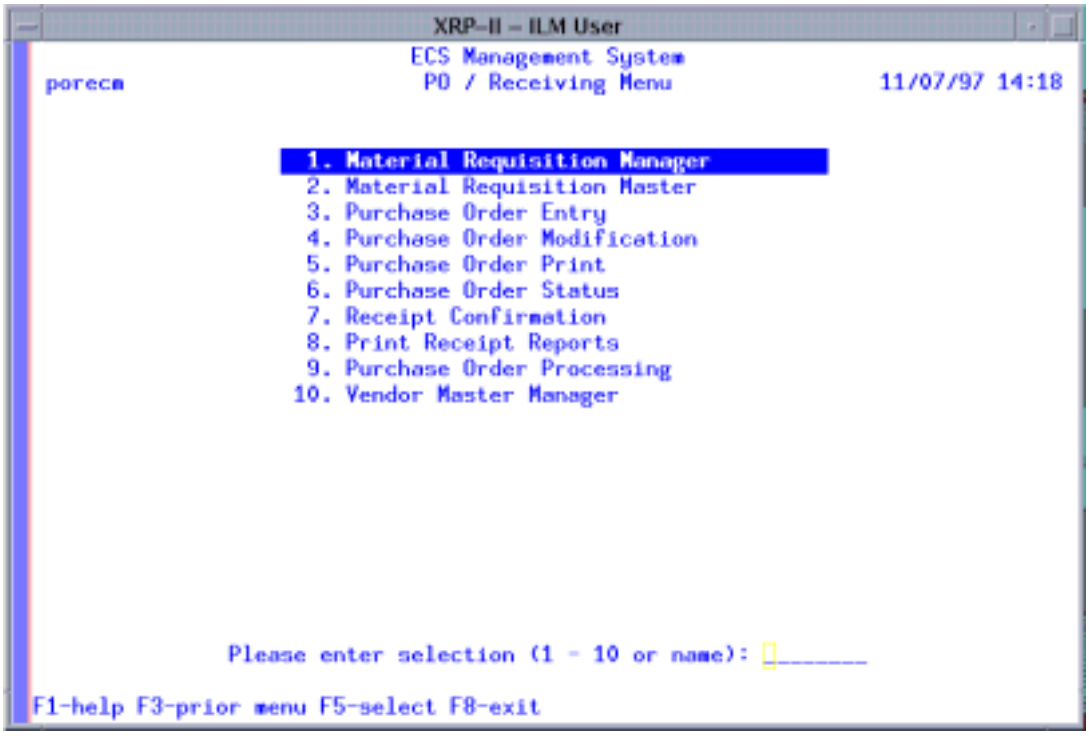


Figure 4.3.4-37. PO/Receiving Menu CHUI

The **PO/RECEIVING** menu is broken down into the following functions

Table 4.3.4-37. PO/Receiving Menu options

Menu item	Function	Section
Material Requisition Manager	Initiates the process of requisitioning consumables or spares. This requisition requires approval of the procurement manager before it turns into a purchase order.	4.3.4.2.6.1
Material Requisition Master	For buyers to examine all manual and system generated requisitions for the placement of Purchase Orders with Vendors.	4.3.4.2.6.2
Purchase Order Entry	Entry point for all Purchase Orders	4.3.4.2.6.3
Purchase Order Modification	Provides buyers with the ability modify existing PO information and the individual item records associated a PO.	4.3.4.2.6.4
Purchase Order Print	Prints the Purchase Order document for subsequent mailing to the vendor and/or copy to the receiving dock.	4.3.4.2.6.5
Purchase Order Status	Provides an inquiry into the PO file only.	4.3.4.2.6.6
Receipt Confirmation	Provides the receiving requirements for open PO's and is the entry point for assignment of EIN numbers into the system.	4.3.4.2.6.7
Print Receipt Reports	Provides ability to print past receipt reports.	4.3.4.2.6.8
Purchase Order Processing	Examines all open PO's and closes those that meet established criteria.	4.3.4.2.6.9
Vendor Master Manager	Permits the entry and modification of vendors and address data to the system.	4.3.4.2.6.10

The following pages describe the screens, the data, and the process for entering, modifying, and managing purchase order and property receiving data. Each selection item on the PO/ RECEIVING menu is discussed, in order, as it appears on the menu screen. This discussion include sub menus, screens, and automatic triggers, if any, associated with the individual screen or field.

4.3.4.2.6.1 Material Requisition Manager

The Material Requisition Manager initiates the process of requisitioning consumables or spares. This requisition requires approval of the procurement manager before it turns into a purchase order.

4.3.4.2.6.1.1 Material Requisition Manager Screens

This screen permits users to enter requisitions of consumables or spares manually for transmission to buyers. This requisition requires approval of the procurement manager before it turns into a purchase order. Once approved, ILM will automatically generate a PO for the user.

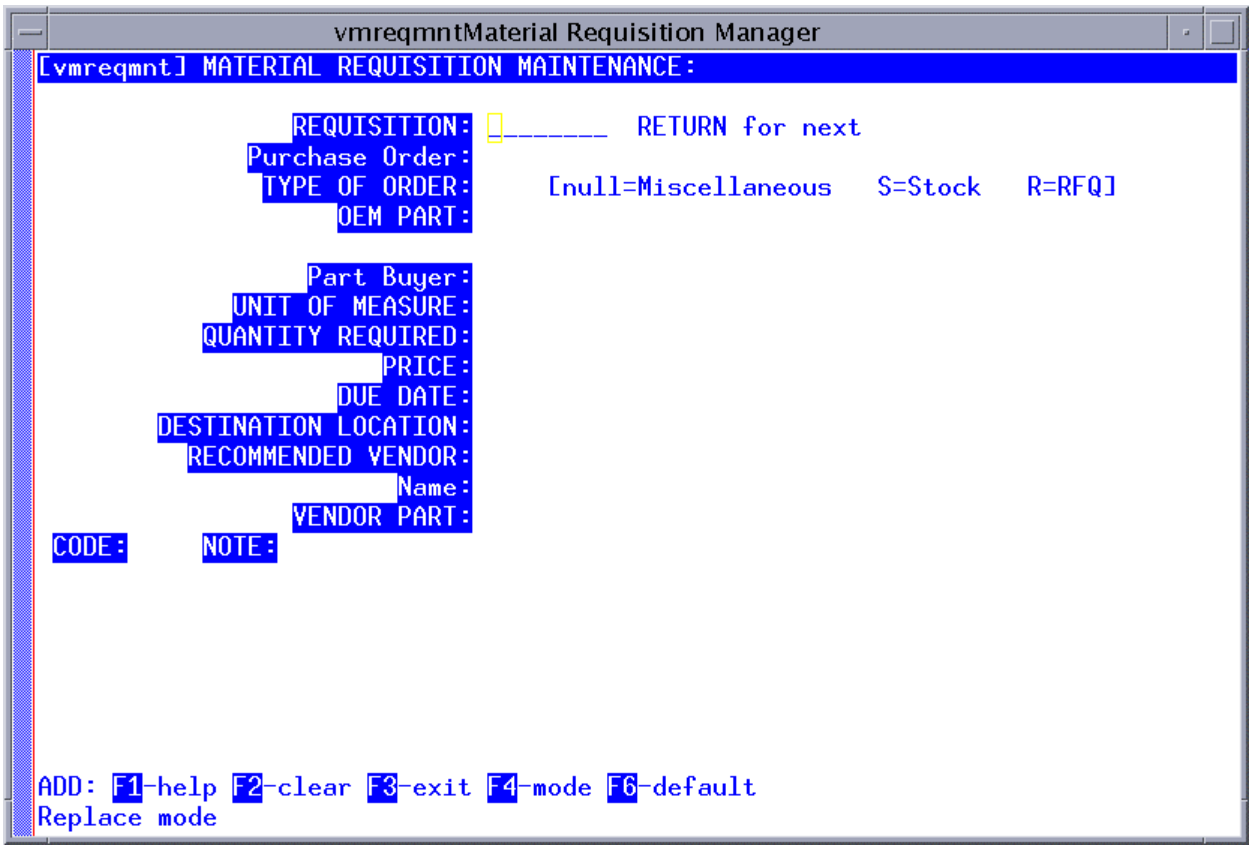


Figure 4.3.4-38. Material Requisition Manager CHUI

Bottom Line Commands:

- ADD MODE: F1,F2,F3,F4,F6
- **/A**dd Add (store) the displayed record (data on the screen) to the data base.
- **/C**opy Copy the "tagged" displayed fields (data on the screen) to other fields.
- **/D**elete Delete the displayed record (data on the screen) from the data base.
- **/I**nsert Insert (store) the displayed record (data on the screen) in sequence to the data base
- **/M**odify Modify (store) the displayed record (data on the screen) in the data base.
- **/N**ote Add a note to the displayed record (data on the screen).
- **/S**ort Sort on the selected field of the displayed record (data on the screen).
- **/Z**oom Display a list of all the values of the selected field in the data base.
- **V**iew Toggles between "form" or record display and "table" or list display.

Table 4.3.4-38. Material Requisition Manager Machine Field Descriptions

Field Name	Data Type	Size	Description
LAST & CURRENT	String	35	indicates the last requisition entered and the current requisition you are reviewing.
REQUISITION	Number	8	is the requisition number assigned to this Material Requisition. It automatically generated when the user presses the <ENTER> key.
Purchase Order	String	10	This is the actual Purchase Order number. The system will generate the next available number for you when you press <RETURN>. The operator can use the Purchase Order Modification screen to change the PO number after the actual PO number is obtained from Purchasing
TYPE OF ORDER	String	1	allows you to select the appropriate code this requisition:
TYPE OF ORDER, NULL	String	1	Null = Miscellaneous
TYPE OF ORDER, STOCK	String	1	S = Stock
TYPE OF ORDER, R	String	1	R = RFQ
OEM PART	String	34	This field is the OEM part number reflected from the EIN record of the child.
Part Buyer	String	6	is filled by ILM using you user ID
UNIT OF MEASURE	String	2	is the measure of the item you are buying. Use the /Zoom screen to assist your selection
QUANTITY REQUIRED	Floating	9.1	is the total number of items you wish to order.
PRICE	Floating	11.4	is the total price of each item.
DUE DATE	Date	2	is calculated by ILM for you (Today plus 45 days.)
DESTINATION LOCATION	String	6	Enter the destination location (DAAC) where the item is being transferred to.
RECOMMENDED VENDOR	String	6	selects the vendor code and is your opportunity to select your vendor of choice for this item. Use the /Zoom screen to assist your selection. ILM fills in the name fields for you when you make this selection.
Name	String	30	This field is the user's name as reflected from the user file.
VENDOR PART	String	16	is the actual vendor part number if it differs from the OEM part number entered earlier on this screen.
CODE	String	2	The administrator can set up codes for their specific needs if desired.
NOTE	String	60	This field is used to enter a 60 character note attached to this item.

Remember to press <ENTER> after each field.

4.3.4.2.6.2 Material Requisition Master

Material Requisition Master provides buyers with the capability to examine all manual and system generated requisitions for the placement of Purchase Orders with Vendors.

4.3.4.2.6.2.1 Material Requisition Master Screen

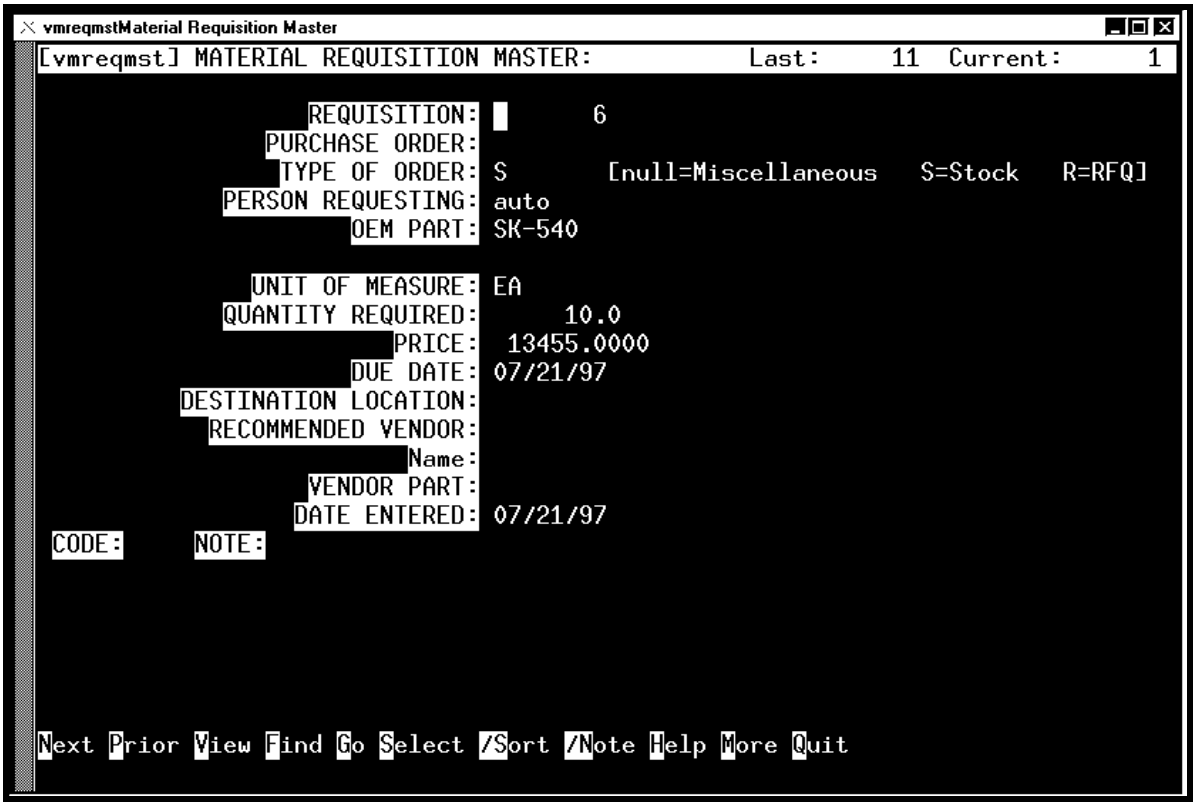


Figure 4.3.4-39. Material Requisition Master CHUI

This screen is the master for buyers to examine all manual and system generated requisitions for the placement of Purchase Orders with Vendors.

Bottom Line Commands:Ä

- **/A**dd Add (store) the displayed record (data on the screen) to the data base.
- **/C**opy Copy the "tagged" displayed fields (data on the screen) to other fields.
- **/D**elete Delete the displayed record (data on the screen) from the data base.
- **/I**nsert Insert (store) the displayed record (data on the screen) in sequence to the data base
- **/M**odify Modify (store) the displayed record (data on the screen) in the data base.
- **/N**ote Add a note to the displayed record (data on the screen).
- **/S**ort Sort on the selected field of the displayed record (data on the screen).

- **V**iew Toggles between “form” or record display and “table” or list display.

Please consult the XRP-II Purchasing Manual for details of use and the fields on this screen.

Table 4.3.4-39. Material Requisition Master Machine Field Descriptions (1 of 2)

Field Name	Data Type	Size	Description
LAST & CURRENT	String	35	indicates the last requisition entered and the current requisition you are reviewing.
REQUISITION	Number	8	is the requisition number assigned to this Material Requisition. It automatically generated when the user presses the <ENTER> key.
PURCHASE ORDER	String	10	This is the actual Purchase Order number. The system will generate the next available number for you when you press <RETURN>. The operator can use the Purchase Order Modification screen to change the PO number after the actual PO number is obtained from Purchasing
TYPE OF ORDER	String	1	allows you to select the appropriate code this requisition:
TYPE OF ORDER, NULL	String	1	Null = Miscellaneous
TYPE OF ORDER, STOCK	String	1	S = Stock
TYPE OF ORDER, R	String	1	R = RFQ
PERSON REQUESTING	String	8	Name of person completing the requisition. Automatically filled in from the operator’s UserID.
OEM PART	String	34	This field is the OEM part number reflected from the EIN record of the child.
PART BUYER	String	6	is filled by ILM using you user ID
UNIT OF MEASURE	String	2	is the measure of the item you are buying. Use the /Zoom screen to assist your selection
QUANTITY REQUIRED	Floating	9.1	is the total number of items you wish to order.
PRICE	Floating	11.4	is the total price of each item.
DUE DATE	Date	2	is calculated by ILM for you (Today plus 45 days.)
DESTINATION LOCATION	String	6	Enter the destination location (DAAC) where the item is being transferred to.
RECOMMENDED VENDOR	String	6	selects the vendor code and is your opportunity to select your vendor of choice for this item. Use the /Zoom screen to assist your selection. ILM fills in the name fields for you when you make this selection.

Table 4.3.4-39. Material Requisition Master Machine Field Descriptions (2 of 2)

Field Name	Data Type	Size	Description
Name	String	30	This field is the user's name as reflected from the user file.
VENDOR PART	String	16	is the actual vendor part number if it differs from the OEM part number entered earlier on this screen.
CODE	String	2	The administrator can set up codes for their specific needs if desired.
NOTE	String	60	This field is used to enter a 60 character note attached to this item.

Remember to press <ENTER> after each field.

4.3.4.2.6.3 Purchase Order Entry

Purchase Order Entry is the entry point for all Purchase Orders. There are 2 screens for the Purchase Order Entry.

4.3.4.2.6.3.1 Purchase Order Entry Screen

This screen is the entry point for all Purchase Orders. The screen is presented to the operator in ADD mode. When the header record has been completed, the operator will invoke the items page to add line items for the material being purchased.

Occasionally, there may be a need to enter a new PO using the ILM. The following information is designed to make you data entry task easier. Below, is a listing of fields found on the Purchase Order Entry Form and its child screen PO Component Entry Screen.

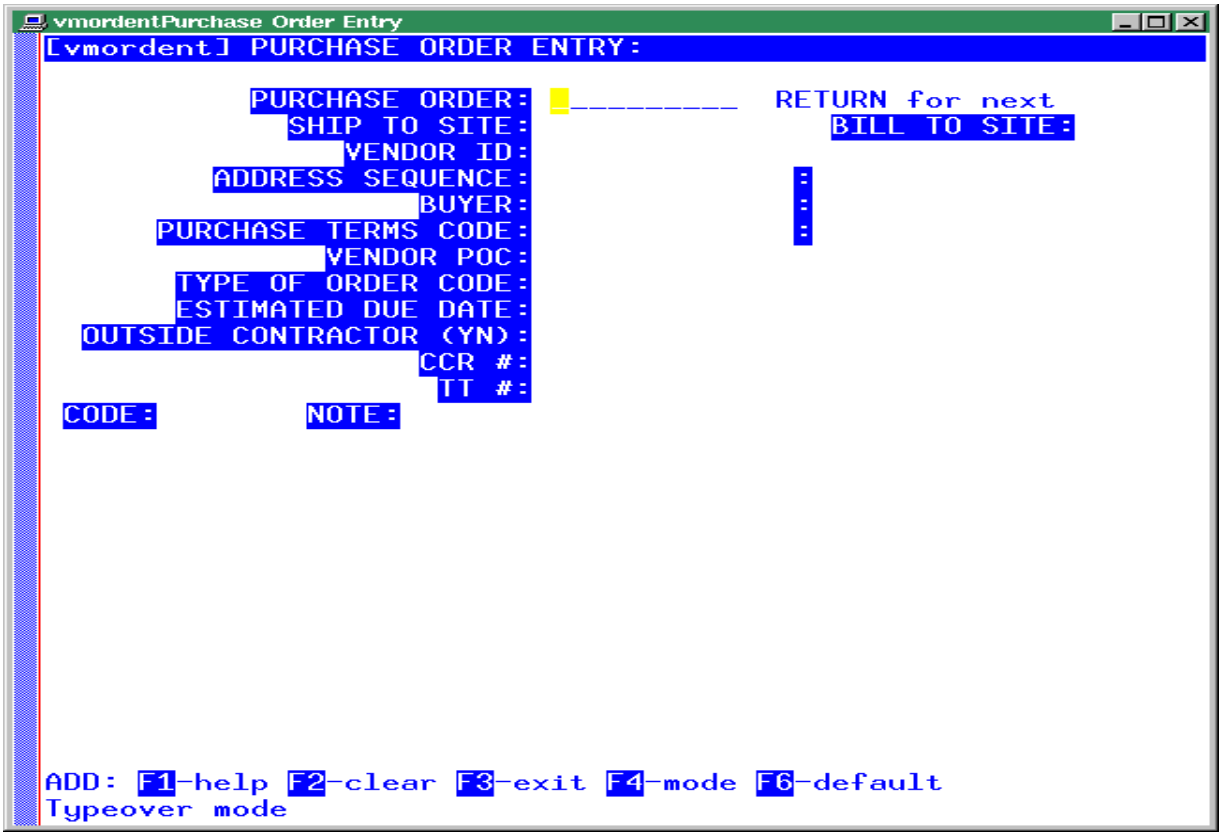


Figure 4.3.4-40. Purchase Order Entry CHUI

Bottom Line Commands:

- ADD MODE: F1,F2,F3,F4,F6
- **/A**dd Add (store) the displayed record (data on the screen) to the data base.
- **/C**opy Copy the "tagged" displayed fields (data on the screen) to other fields.
- **/D**elete Delete the displayed record (data on the screen) from the data base.
- **/I**nsert Insert (store) the displayed record (data on the screen) in sequence to the data base
- **/M**odify Modify (store) the displayed record (data on the screen) in the data base.
- **/N**ote Add a note to the displayed record (data on the screen).
- **/S**ort Sort on the selected field of the displayed record (data on the screen).
- **/I**tems This command invokes the items page of the structure manager to allow the user to add or modify children EIN items.
- **V**iew Toggles between "form" or record display and "table" or list display.

Table 4.3.4-40. Purchase Order Entry Field Descriptions

Field Name	Data Type	Size	Description
PURCHASE ORDER	String	10	This is the actual Purchase Order number. The system will generate the next available number for you when you press <RETURN>. The operator can use the Purchase Order Modification screen to change the PO number after the actual PO number is obtained from Purchasing
SHIP TO SITE	String	6	Enter the site code for the material to be shipped to. The default is the current site. The operator may /Zoom to the Location table for other location codes.
BILL TO SITE	String	6	Enter the site code for the vendor to send the invoice. The operator may /Zoom to the Location table for other location codes.
VENDOR ID	String	6	Vendor id code of equipment being queried
BUYER	String	6	Enter the buyer ID. The operator may /Zoom to the buyer data base to obtain the appropriate value.
PURCHASE TERMS CODE	String	2	Enter the terms code for the PO.
VENDOR POC	String	30	Enter the name of the person designated as the point of contact at the vendor facility.
TYPE OF ORDER CODE	String	1	This field should always be left at the default of 'S'.
ESTIMATED DUE DATE	Date	2	Enter the estimated due date for the material being ordered.
OUTSIDE CONTRACTOR	String	1	This field should always be left at the default of 'Y'.
CCR #	String	30	Enter the applicable CCR number.
TT #	String	15	Enter the appropriate Trouble Ticket number if this PO is open because of a trouble ticket.
NOTE	String	60	This field is used to enter a 60 character note attached to this item.

Remember to press <ENTER> after each field.

4.3.4.2.6.3.2 Item Page for Purchase Order Entry

Selecting **Item** from the bottom line commands will display the following screen with purchase order item information.

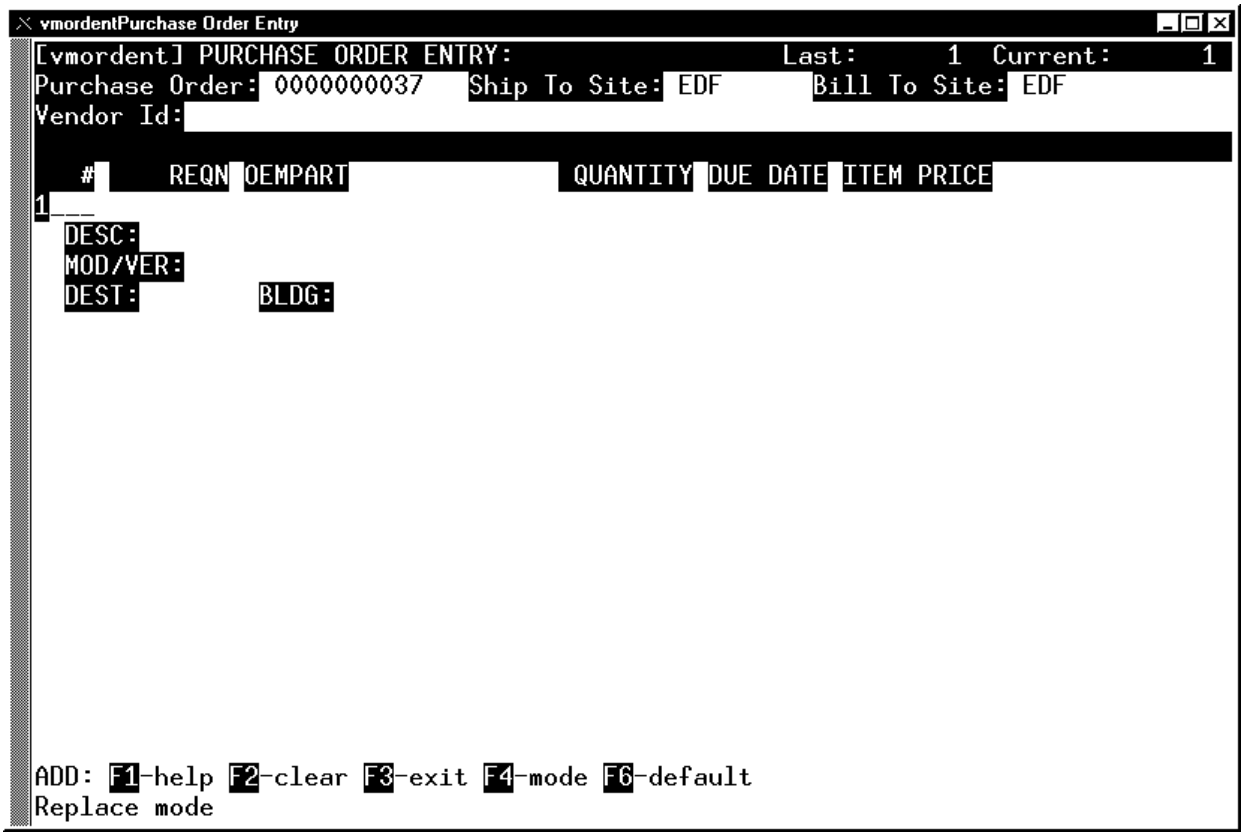


Figure 4.3.4-41. Item Page for Purchase Order Entry CHUI

Bottom Line Commands:

None.

Table 4.3.4-41. Item Page for Purchase Order Entry Field Descriptions

Field Name	Data Type	Size	Description
LAST & CURRENT	String	35	indicates the last requisition entered and the current requisition you are reviewing.
Purchase Order	String	10	This is the actual Purchase Order number. The system will generate the next available number for you when you press <RETURN>. The operator can use the Purchase Order Modification screen to change the PO number after the actual PO number is obtained from Purchasing
Ship To Site	String	6	Enter the site code for the material to be shipped to. The default is the current site. The operator may /Zoom to the Location table for other location codes.
Bill To Site	String	6	Enter the site code for the vendor to send the invoice. The operator may /Zoom to the Location table for other location codes.
Vendor Id	String	6	Vendor id code of equipment being queried
# (PO)	Number	4	Count of entries on the Item Page
REQN (PO)	Number	8	is the requisition number assigned to this Purchase Order. It automatically generated when the user presses the <ENTER> key.
OEMPART (PO)	String	34	is the manufacturer's part number of the item(s) you are ordering. The field, DESC, is automatically filled with the selected part's description when you make this selection. Use the /Zoom screen to assist your selection
QUANTITY (PO)	Floating	10.1	Number of items on order.
DUE DATE	Date	2	is calculated by ILM for you (Today plus 45 days.)
ITEM PRICE	Floating	11.4	This field is the purchase cost of the item. Same as COST.
DESC (PO)	String	30	is an auto filled field based upon your selection of the OEM PART number
MOD/VER (PO)	String	24	This field is used to enter the actual Model and or Version of the item. If the user had chosen a known OEM Part, this field will be written with the information from this file.
DEST (PO)	String	6	This field is the destination location or site code where the parent and children are being shipped to. The user may /Z, Zoom at this field to display the location data base.
BDLG (PO)	String	6	This field is used to designate the building number within the site where the item is.

Remember to press <ENTER> after each field.

4.3.4.2.6.3.3 Entering a Purchase Order

1. Press enter for the PO Number. This number must begin with the first three characters of the site name, e.g. EDF. If this is not so, see the ILM Administrator.
2. Enter the key data elements by selecting the appropriate item from either the pop-up screen or by /**Z**ooming to an additional screen of information.

3. Press **F3** to exit Add mode.
4. Press < **I** > to navigate o the Items page.
5. Press enter to obtain the next sequential line number.
6. /**Z**oom to the Requisition or OEM Part as appropriate, enter the quantity, due date, price, destination location, and building.
7. Continue as required for more line items.
8. When complete, press **F3** until the menu reappears.

4.3.4.2.6.4 Purchase Order Modification

Purchase Order Modification provides buyers with the ability modify existing PO information and the individual item records associated a PO.

4.3.4.2.6.4.1 Purchase Order Modification Screens

This screen provides buyers with the ability modify existing PO information and the individual item records associated a PO.

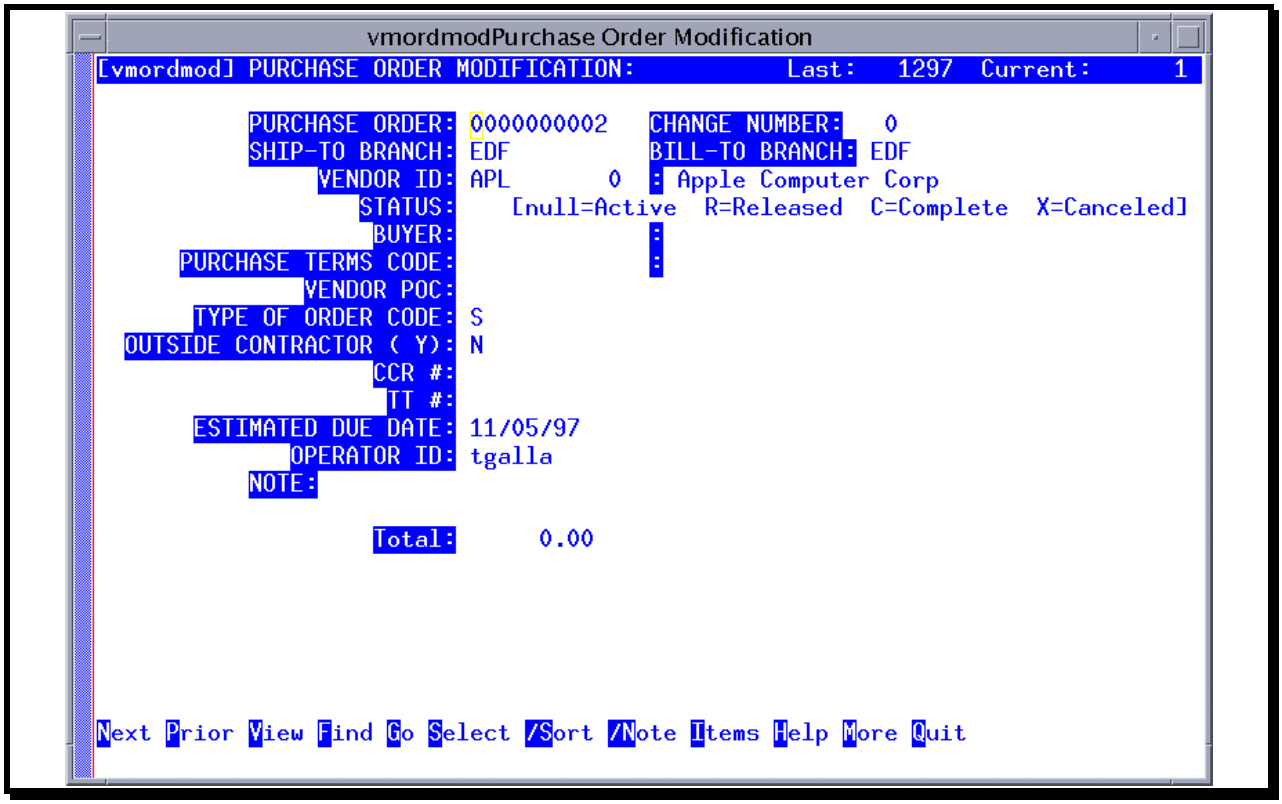


Figure 4.3.4-42. Purchase Order Modification CHUI

Bottom Line Commands:

- **/C**opy Copy the "tagged" displayed fields (data on the screen) to other fields.
- **/M**odify Modify (store) the displayed record (data on the screen) in the data base.
- **/N**ote Add a note to the displayed record (data on the screen).
- **/S**ort Sort on the selected field of the displayed record (data on the screen).
- **/I**tems This command invokes the items page of the structure manager to allow the user to add or modify children EIN items.
- **V**iew Toggles between "form" or record display and "table" or list display.

This screen is similar to the PO entry screen.

Table 4.3.4-42. Purchase Order Modification Field Descriptions (1 of 2)

Field Name	Data Type	Size	Description
PURCHASE ORDER	String	10	This is the actual Purchase Order number. The system will generate the next available number for you when you press <RETURN>. The operator can use the Purchase Order Modification screen to change the PO number after the actual PO number is obtained from Purchasing
CHANGE NUMBER	Number	3	Enter the numeric value of the change number for PO's that have experienced modifications from the original entry date.
SHIP TO BRANCH	String	6	Enter the site code for the material to be shipped to The default is the current site. The operator may /Zoom to the Location table for other location codes.
BILL TO BRANCH	String	6	Enter the site code for the vendor to send the invoice. The operator may /Zoom to the Location table for other location codes.
VENDOR ID	String	6	Vendor id code of equipment being queried
STATUS	String	1	Status code for TERMS CODE
BUYER	String	6	Enter the buyer ID. The operator may /Zoom to the buyer data base to obtain the appropriate value.
PURCHASE TERMS CODE	String	2	Enter the terms code for the PO.
VENDOR POC	String	30	Enter the name of the person designated as the point of contact at the vendor facility.
TYPE OF ORDER CODE	String	1	This field should always be left at the default of 'S'.
ESTIMATED DUE DATE	Date	2	Enter the estimated due date for the material being ordered.
OPERATOR ID	String	8	This field is the login ID of the user who added this item to the data base and is not modifiable by the user.
OUTSIDE CONTRACTOR (Y)	String	1	This field should always be set to 'Y'. The default value is 'N".

Table 4.3.4-42. Purchase Order Modification Field Descriptions (2 of 2)

Field Name	Data Type	Size	Description
CCR #	String	30	Enter the applicable CCR number.
TT #	String	15	Enter the appropriate Trouble Ticket number if this PO is open because of a trouble ticket.
NOTE	String	60	This field is used to enter a 60 character note attached to this item.
Total	Number	10	This is the system calculated value of the order.

Remember to press <ENTER> after each field.

4.3.4.2.6.4.2 Modifying a Purchase Order

Perform a "Find" or a "Select" to locate the desired PO. For more information on using the FIND or SELECT bottom line commends, review Appendix A, Bottom Line Commands. You may also press **<V>**, VIEW and select for the list on the screen. Simply move the cursor to the desired PO and press **<V>** again. ILM will return you to the modification screen

To actually alter data elements enter **</M>**. This places you into modify mode. Alter any data elements on the PO header screen as required. Remember, press enter after each field alteration or ILM will not accept the change.

When modifications are complete, press **<F3>** to exit modify mode

To alter individual line item parts of the PO press **< I >** to to move to the ITEMS screen. Review the line items and move the cursor to the line item you want to modify. Again, press **</M>** to enter modification mode and alter data as required.

When modifications are complete, press **<F3>** to exit modify mode

4.3.4.2.6.5 Purchase Order Print

Purchase Order Print prints the Purchase Order document for subsequent mailing to the vendor and/or copy to the receiving dock.

4.3.4.2.6.5.1 Purchase Order Print Screens

This screen prints the Purchase Order document for subsequent mailing to the vendor and/or copy to the receiving dock. You may consult HTG's XRP-II Purchasing Management Reference Manual, section 2.6.16, pages 14, for use of the **/R**, Report Command. This command provides you a methodology of obtaining quick reports from ILM.

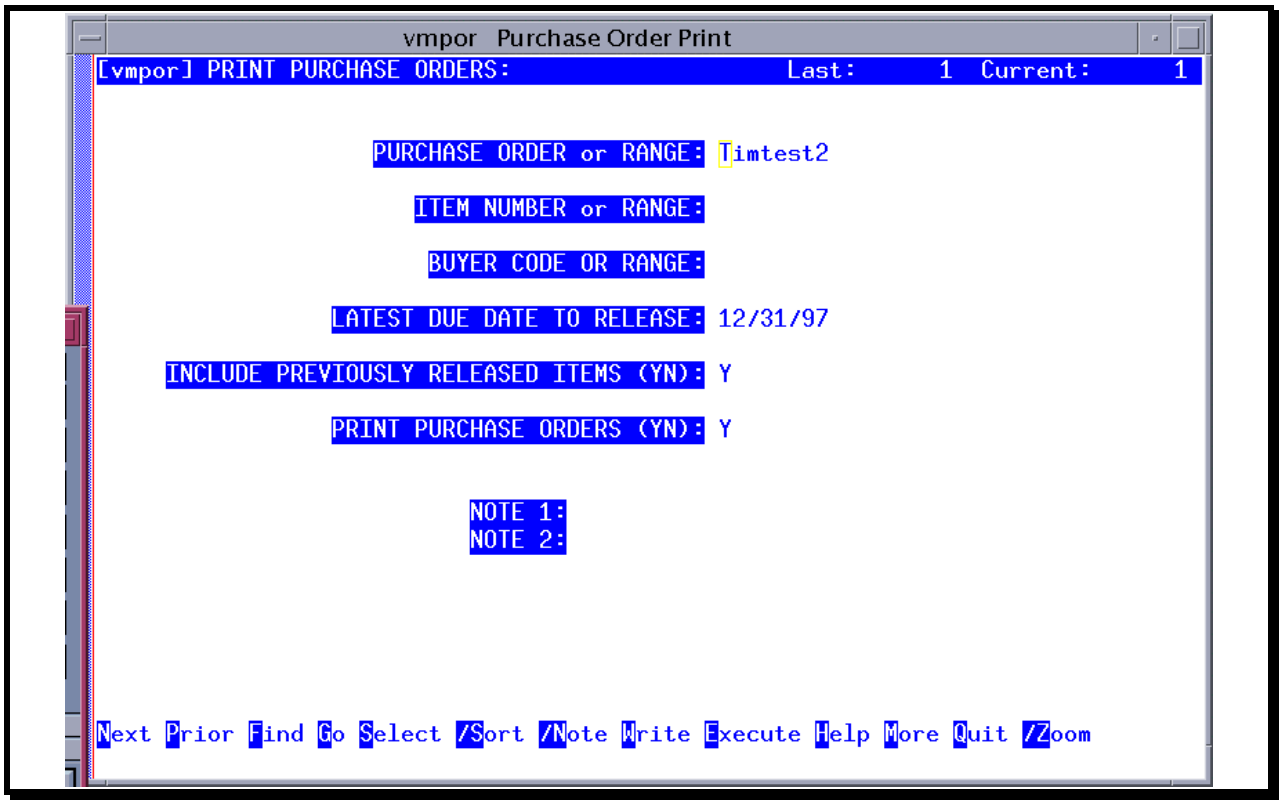


Figure 4.3.4-43. Purchase Order Print CHUI

Bottom Line Commands:

- **/A**dd Add (store) the displayed record (data on the screen) to the data base.
- **/C**opy Copy the "tagged" displayed fields (data on the screen) to other fields.
- **/D**elete Delete the displayed record (data on the screen) from the data base.
- **/I**nsert Insert (store) the displayed record (data on the screen) in sequence to the data base
- **/M**odify Modify (store) the displayed record (data on the screen) in the data base.
- **/N**ote Add a note to the displayed record (data on the screen).
- **/S**ort Sort on the selected field of the displayed record (data on the screen).
- **/Z**oom Display a list of all the values of the selected field in the data base.
- **E**xecute This command invokes the appropriate process and prints a report on the results.
- **Write** Saves the current record to a file designated by the operator.

Please consult the HTG's XRP-II Purchasing Management Reference Manual, Section 5.3, page 35 & 36, for details of use and the fields on this screen.

Table 4.3.4-43. Purchase Order Print Field Descriptions

Field Name	Data Type	Size	Description
PURCHASE ORDER or RANGE	String	10	This is the actual Purchase Order number. The system will generate the next available number for you when you press <RETURN>. The operator can use the Purchase Order Modification screen to change the PO number after the actual PO number is obtained from Purchasing
ITEM NUMBER or RANGE	String	8	Item number(s) to report.
BUYER CODE or RANGE	String	2	Enter the buyer ID. The operator may /Zoom to the buyer data base to obtain the appropriate value.
LATEST DUE DATE to RELEASE	String	8	is calculated by ILM for you (Today plus 45 days.)
INCLUDE PREVIOUSLY RELEASED ITEMS (YN)	String	1	Include (Y) items covered in the selected POs that have a RELEASE CODE showing the item is released. Else (N) display only unreleased items.
PRINT PURCHASE ORDERS (YN)	String	1	Print (Y) the displayed information. Else (N) do not print.
NOTE 1 and NOTE 2	String	60	Enter any notes to appear on the header of the report.

Remember to press <ENTER> after each field.

4.3.4.2.6.6 Purchase Order Status

Purchase Order Status provides an inquiry into the PO file only.

4.3.4.2.6.6.1 Purchase Order Status Screens

This screen provides an inquiry into the PO file only.

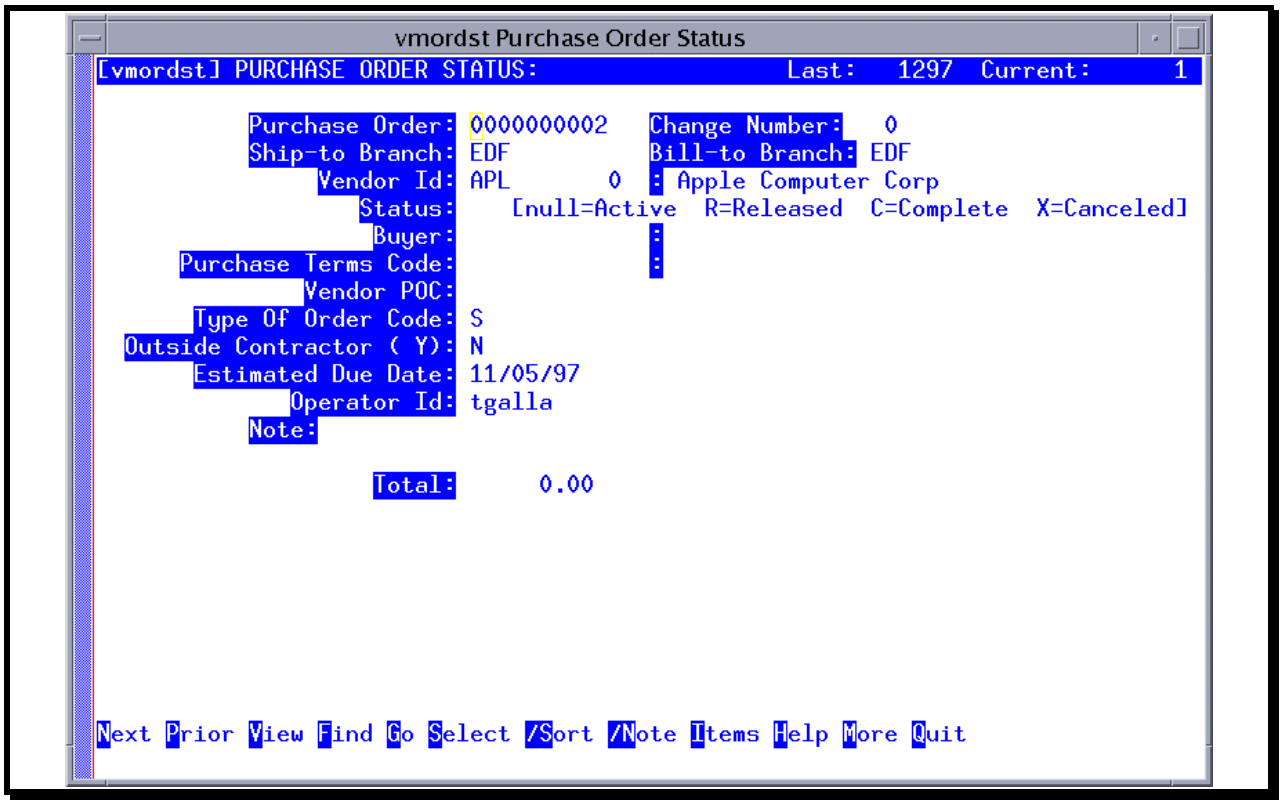


Figure 4.3.4-44. Purchase Order Status CHUI

Bottom Line Commands:

- **/N**ote Add a note to the displayed record (data on the screen).
- **/S**ort Sort on the selected field of the displayed record (data on the screen).
- ↑ **/I**tems This command invokes the items page of the structure manager to allow the user to add or modify children EIN items.
- **V**iew Toggles between "form" or record display and "table" or list display.

Table 4.3.4-44. Purchase Order Status Field Descriptions

Field Name	Data Type	Size	Description
Purchase Order	String	10	This is the actual Purchase Order number. The system will generate the next available number for you when you press <RETURN>. The operator can use the Purchase Order Modification screen to change the PO number after the actual PO number is obtained from Purchasing
Change Number	Number	3	Enter the numeric value of the change number for PO's that have experienced modifications from the original entry date.
Ship To Branch	String	6	Enter the site code for the material to be shipped to The default is the current site. The operator may /Zoom to the Location table for other location codes.
Bill To Branch	String	6	Enter the site code for the vendor to send the invoice. The operator may /Zoom to the Location table for other location codes.
Vendor Id	String	6	Vendor id code of equipment being queried
Status	String	1	Status code for TERMS CODE
Buyer	String	6	Enter the buyer ID. The operator may /Zoom to the buyer data base to obtain the appropriate value.
Purchase Terms Code	String	2	Enter the terms code for the PO.
Vendor Poc	String	30	Enter the name of the person designated as the point of contact at the vendor facility.
Type Of Order Code	String	1	This field should always be left at the default of 'S'.
Outside Contractor	String	1	This field should always be left at the default of 'Y'.set to 'Y'. The default value is 'N".
Estimated Due Date	Date	2	Enter the estimated due date for the material being ordered.
Operator Id	String	8	This field is the login ID of the user who added this item to the data base and is not modifiable by the user.
Note	String	60	This field is used to enter a 60 character note attached to this item.
Total	Number	10	This is the system calculated value of the order.

Remember to press <ENTER> after each field.

4.3.4.2.6.7 Receipt Confirmation

Receipt Confirmation provides the receiving requirements for open PO's and is the entry point for assignment of EIN numbers into the system.

4.3.4.2.6.7.1 Receipt Confirmation Screens

This screen provides the receiving requirements for open PO's and is the entry point for assignment of EIN numbers into the system. The operator should always permit the system to

assign the next sequential system assigned receiving sequence number, enter the required fields, and then invoke the Items screens to display all open line items on the entered PO. The operator will enter the actual quantities of each line item in this screen and then exit. Upon exit, the system will query the master record for each item and, if the item has been previously designated as a consumable or spare item, the transaction is performed. If not, the operator is asked if the item is consumable or spare. If the operator replies 'N' for no, the system then displays the EIN entry screen for assignment of EIN numbers

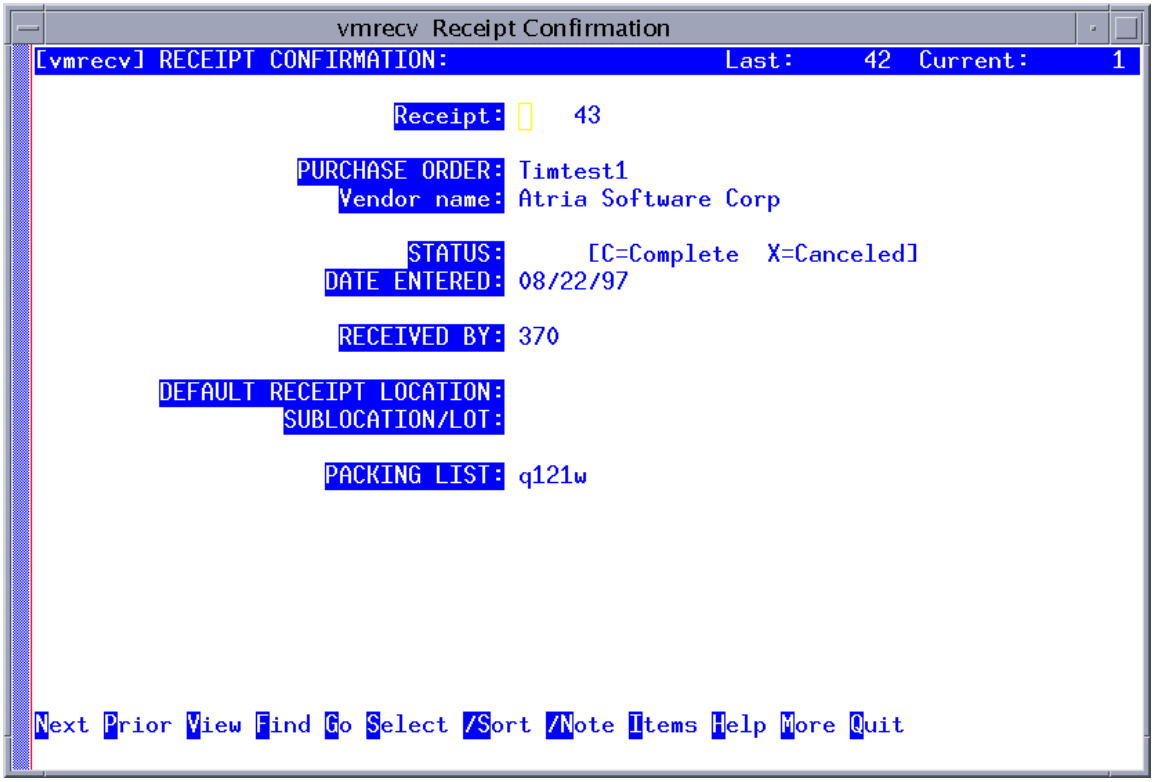


Figure 4.3.4-45. Receipt Confirmation CHUI

Bottom Line Commands:

- **/A**dd Add (store) the displayed record (data on the screen) to the data base.
- **/C**opy Copy the "tagged" displayed fields (data on the screen) to other fields.
- **/D**elete Delete the displayed record (data on the screen) from the data base.
- **/I**nsert Insert (store) the displayed record (data on the screen) in sequence to the data base
- **/M**odify Modify (store) the displayed record (data on the screen) in the data base.
- **/N**ote Add a note to the displayed record (data on the screen).
- **/S**ort Sort on the selected field of the displayed record (data on the screen).
- **V**iew Toggles between "form" or record display and "table" or list display.

- **/I**tems This command invokes the items page of the structure manager to allow the user to add or modify children EIN items.

Please consult the XRP-II Purchasing Manual for details of use and the fields on this screen.

Table 4.3.4-45. Receipt Confirmation Field Descriptions

Field Name	Data Type	Size	Description
Receipt	Number	6	Number assigned to order during receipt process
PURCHASE ORDER (requisition)	String	10	is the PO # associated with this requisition
Vendor name	String	35	Vendor name on the PO
STATUS	String	1	Status code for TERMS CODE
DATE ENTERED	Date	2	This field is a system assigned date when the record was added to the data base and not modifiable by the user.
RECEIVED BY	String	4	User Id code of the operator entering this receipt.
DEFAULT RECEIPT LOCATION	String	6	This field is used to designate the actual location or site of where the item is. The user may zoom to the Location screen to pick an appropriate code. NOTE : This data must be previously entered with screen Material Location Maintenance (imlocns).
SUBLOCATION/ LOT	String	10	Additional identification of the receipt location.
PACKING LIST	String	20	Tracking Identifier/ ID of the packing list included in the received shipment.

Remember to press <ENTER> after each field.

4.3.4.2.6.8 Print Receipt Reports

Print Receipt Reports provides ability to print past receipt reports.

4.3.4.2.6.8.1 Print Receipt Reports Screens

This screen provides ability to print past receipt reports.

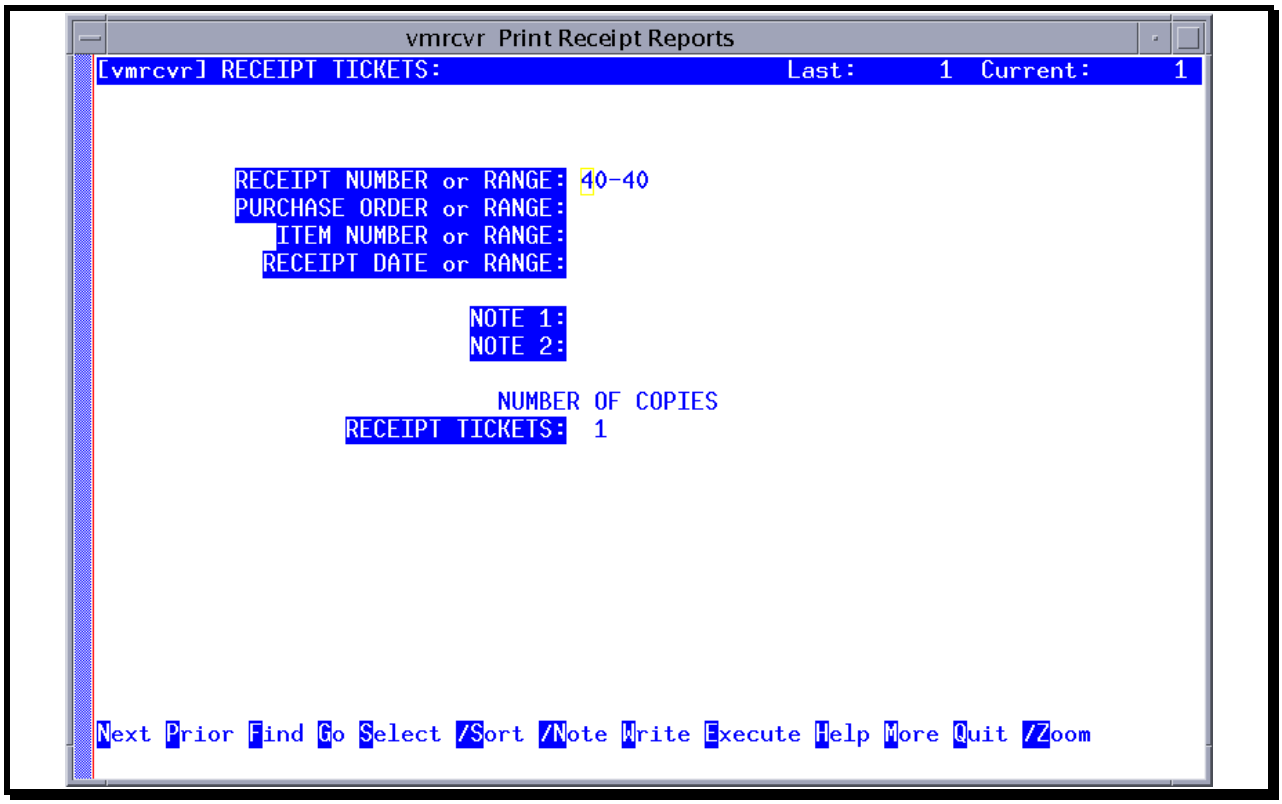


Figure 4.3.4-46. Print Receipt Reports CHUI

Bottom Line Commands:

- **/A**dd Add (store) the displayed record (data on the screen) to the data base.
- **/C**opy Copy the "tagged" displayed fields (data on the screen) to other fields.
- **/D**elete Delete the displayed record (data on the screen) from the data base.
- **/I**nsert Insert (store) the displayed record (data on the screen) in sequence to the data base
- **/M**odify Modify (store) the displayed record (data on the screen) in the data base.
- **/N**ote Add a note to the displayed record (data on the screen).
- **/S**ort Sort on the selected field of the displayed record (data on the screen).
- **/Z**oom Display a list of all the values of the selected field in the data base.
- **E**xecute This command invokes the appropriate process and prints a report on the results.
- **W**rite Saves the current record to a file designated by the operator.

Table 4.3.4-46. Print Receipt Reports Field Descriptions

Field Name	Data Type	Size	Description
RECEIPT NUMBER or RANGE	String	6	Receipt tracking number(s) to report.
PURCHASE ORDER or RANGE	String	10	This is the actual Purchase Order number. The system will generate the next available number for you when you press <RETURN>. The operator can use the Purchase Order Modification screen to change the PO number after the actual PO number is obtained from Purchasing
ITEM NUMBER or RANGE	String	8	Item number(s) to report.
RECEIPT DATE or RANGE	Date	2	Receipt date(s) to report.
NOTE 1 and NOTE 2	String	60	Enter any notes to appear on the header of the report.
RECEIPT TICKETS	String	1	Enter any number of copies of the report to print.

Remember to press <ENTER> after each field.

4.3.4.2.6.9 Purchase Order Processing

Purchase Order Processing examines all open PO's and closes those that meet established criteria.

4.3.4.2.6.9.1 Purchase Order Processing Screens

This function examines all open PO's and closes those that meet established criteria.

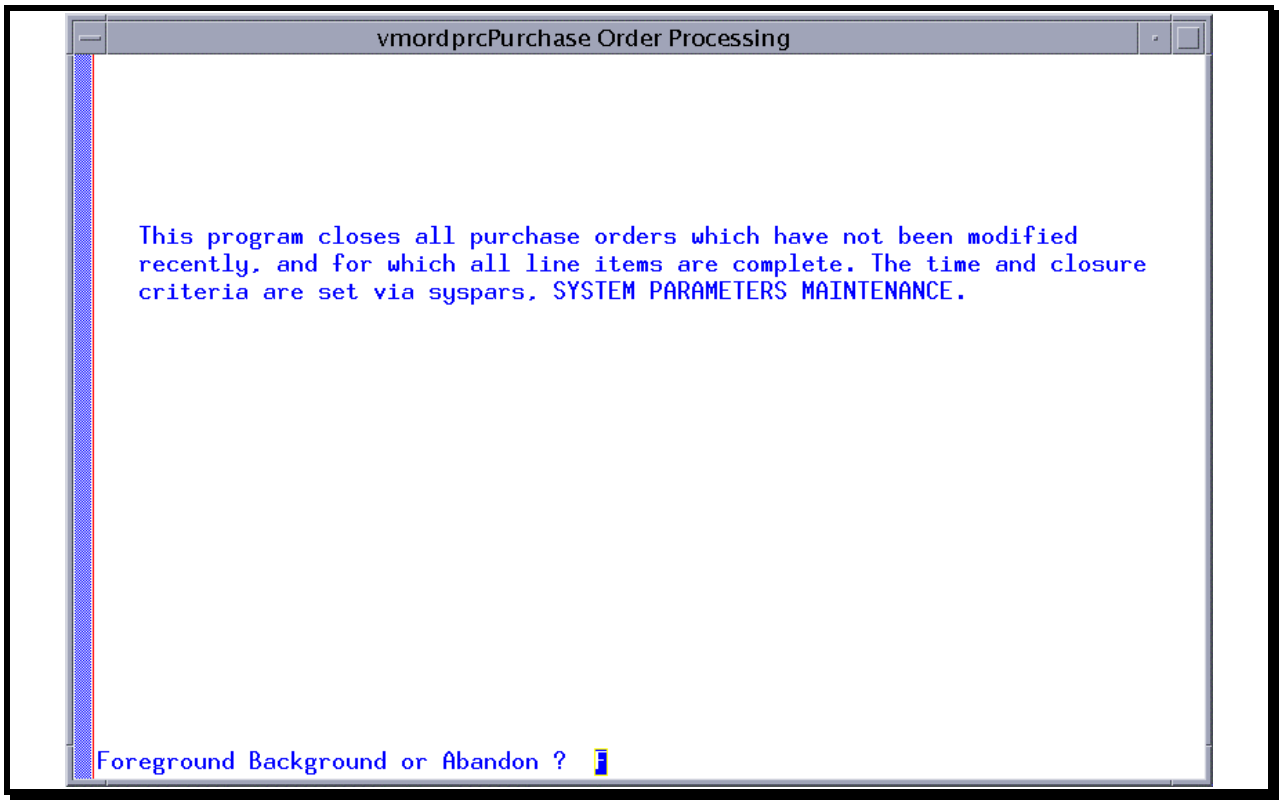


Figure 4.3.4-47. Purchase Order Processing CHUI

Bottom Line Commands:

- **F**oreground **B**ackground or **A**bandon? Foreground performs the process while connected to the display: no other XRP-II functions may be used until the process completes. Background performs the process and allow other XRP-II functions to be performed. Abandon terminates the Purchase Order Processing.

Remember to press <ENTER> after each field.

4.3.4.2.6.10 Vendor Master Manager

Vendor Master Manager permits the entry and modification of vendors and address data to the system.

4.3.4.2.6.10.1 Vendor Master Manager Screens

This screen permits the entry and modification of vendors and address data to the system. The user will enter or modify the fields as required on this screen then invoke the address page to perform any modifications required for the address data for each vendor.

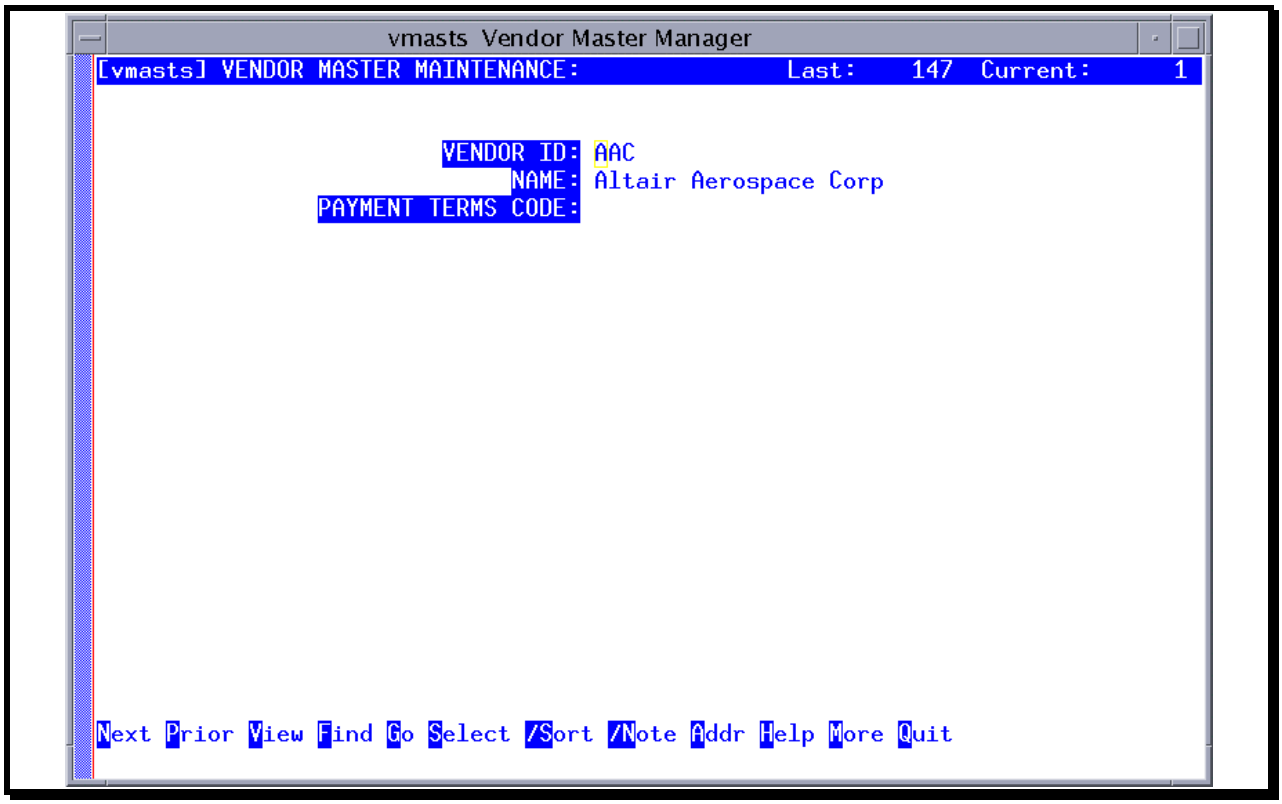


Figure 4.3.4-48. Vendor Master Manager CHUI

Bottom Line Commands:

- **/A**dd Add (store) the displayed record (data on the screen) to the data base.
- **/C**opy Copy the "tagged" displayed fields (data on the screen) to other fields.
- **/D**elete Delete the displayed record (data on the screen) from the data base.
- **/I**nsert Insert (store) the displayed record (data on the screen) in sequence to the data base
- **/M**odify Modify (store) the displayed record (data on the screen) in the data base.
- **/N**ote Add a note to the displayed record (data on the screen).
- **/S**ort Sort on the selected field of the displayed record (data on the screen).
- **A**ddr This command invokes the vendor address maintenance screen to allow the user to update the vendor address information.
- **V**iew Toggles between "form" or record display and "table" or list display.

Table 4.3.4-47. Vendor Master Manager Field Descriptions

Field Name	Data Type	Size	Description
VENDOR ID	String	6	Vendor id code of equipment being queried
NAME	String	30	This field is the user's name as reflected from the user file.
PAYMENT TERMS CODE	String	2	Enter code for payment. The operator may /Zoom to the payment terms data base to choose the appropriate terms code.

Remember to press <ENTER> after each field.

4.3.4.2.7 Maintenance Menu

The ILM Maintenance Menu is used to maintain the ILM database of maintenance oriented data, generate and track Work Orders for maintenance actions, and schedule preventative maintenance for appropriate items.

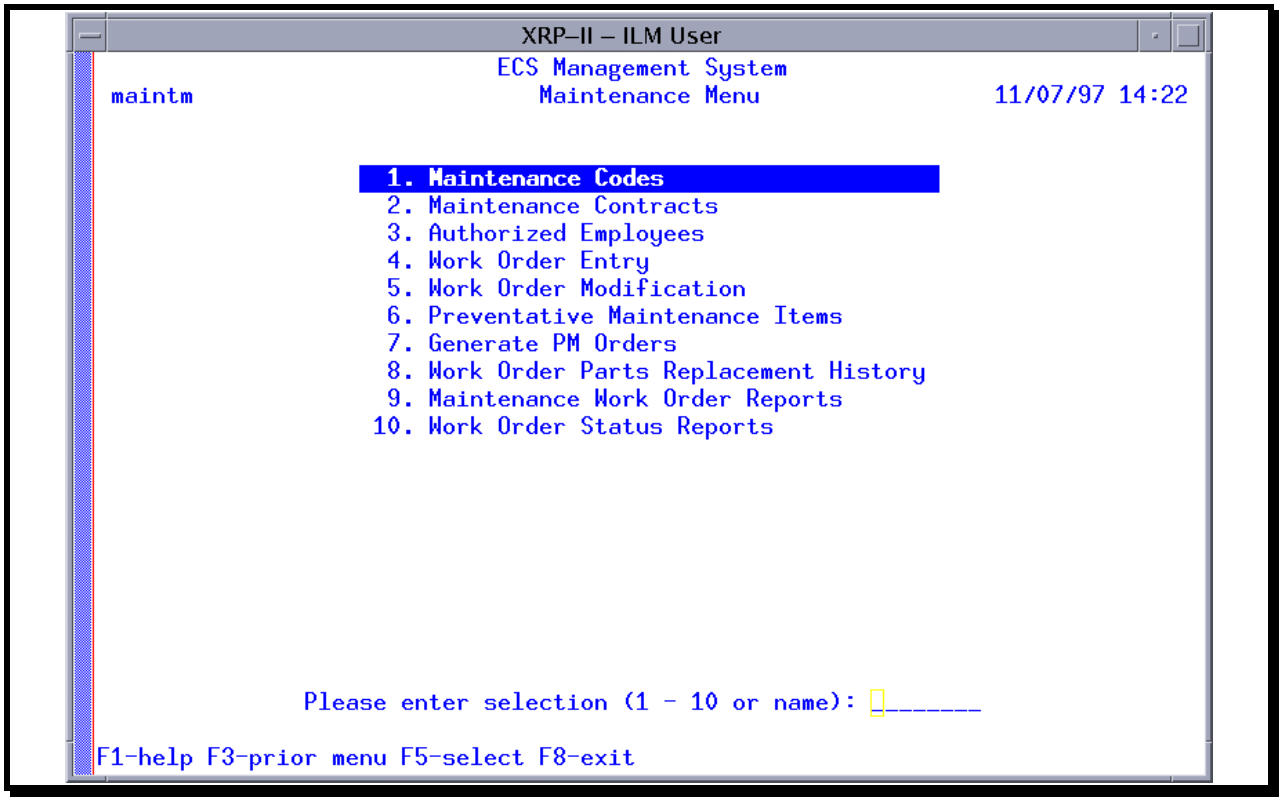


Figure 4.3.4-49. Maintenance Menu CHUI

The Maintenance menu is broken down into the following functions:

Table 4.3.4-48. Maintenance Menu options

Menu item	Function	Section
Maintenance Codes	Provides the ability to establish failure codes and descriptions for use with repairs and replacements.	4.3.4.2.7.1
Maintenance Contracts	Provides the ability enter and maintain contracts numbers for repair contracts with vendors and suppliers.	4.3.4.2.7.2
Authorized Employees	Provides the ability enter and maintain employee codes for employees who have been permitted access to the vendor for repair notification.	4.3.4.2.7.3
Work Order Entry	Provides the ability enter Work Orders for repairs	4.3.4.2.7.4
Work Order Modification	Provides the ability to modify Work Orders for repairs	4.3.4.2.7.5
Preventative Maintenance Items	Provides the ability to designate which items in the EIN file should experience preventative maintenance.	4.3.4.2.7.6
Generate PM Orders	Provides the ability to generate Work Orders for item needing a PM.	4.3.4.2.7.7
Work Order Parts Replacement History	Generates a series of reports detailing parts replacement.	4.3.4.2.7.8
Maintenance Work Order Reports	Provides Work Order Reports for work done on selected machines.	4.3.4.2.7.9
Work Order Status Reports	Provides status reports on selected Work Orders.	4.3.4.2.7.10

4.3.4.2.7.1 Maintenance Codes

Maintenance Codes provides the ability to establish failure codes and descriptions for use with repairs and replacements.

4.3.4.2.7.1.1 Maintenance Codes Screens

This screen provides the ability to establish failure codes and descriptions for use with repairs and replacements.

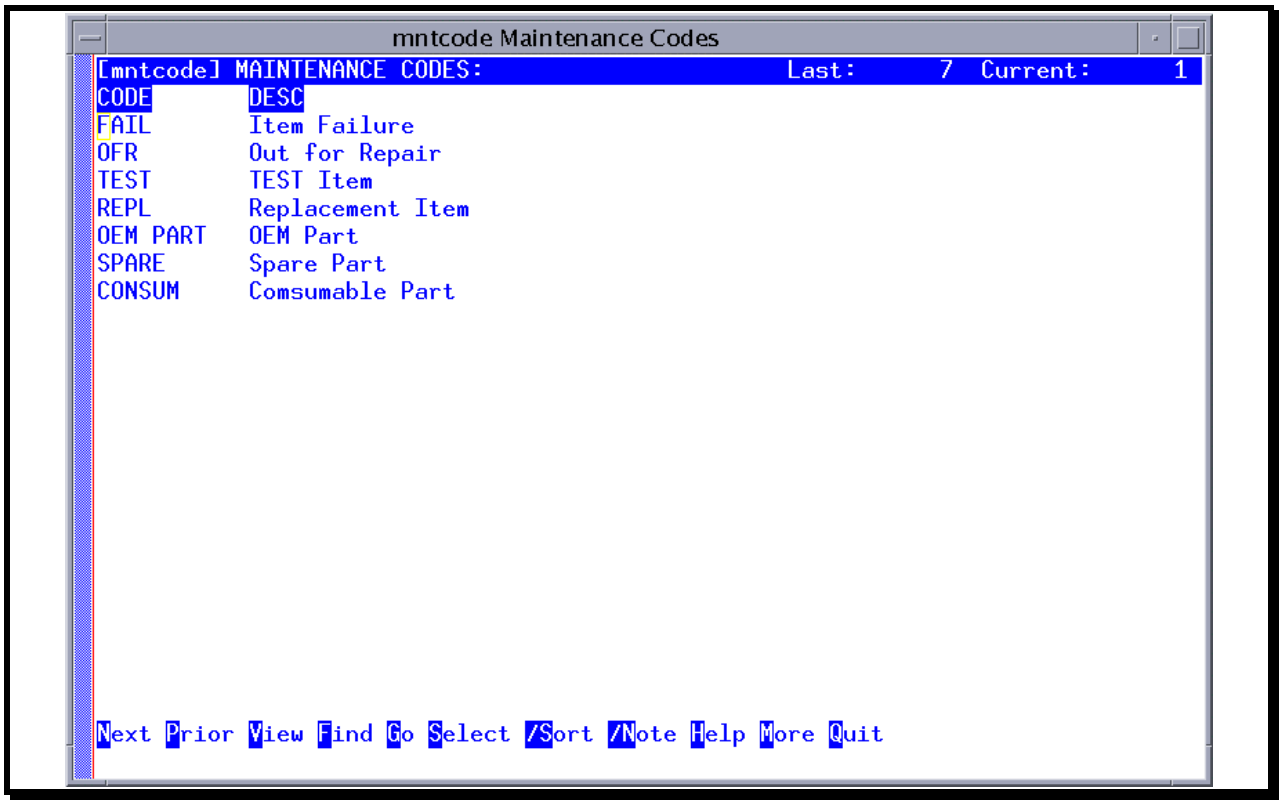


Figure 4.3.4-50. Maintenance Codes CHUI

Bottom Line Commands:

- **/A**dd Add (store) the displayed record (data on the screen) to the data base.
- **/C**opy Copy the "tagged" displayed fields (data on the screen) to other fields.
- **/D**elete Delete the displayed record (data on the screen) from the data base.
- **/I**nsert Insert (store) the displayed record (data on the screen) in sequence to the data base
- **/M**odify Modify (store) the displayed record (data on the screen) in the data base.
- **/N**ote Add a note to the displayed record (data on the screen).
- **/S**ort Sort on the selected field of the displayed record (data on the screen).
- **V**iew Toggles between "form" or record display and "table" or list display.

Table 4.3.4-49. Maintenance Codes Field Descriptions

Field Name	Data Type	Size	Description
CODE (maintenance)	String	2	The user will enter any desired code (to be described in DESC) in this field.
DESC (maintenance)	String	30	Enter the description of the (maintenance) code.

Remember to press <ENTER> after each field.

4.3.4.2.7.2 Maintenance Contracts

Maintenance Contracts provides the ability enter and maintain contracts numbers for repair contracts with vendors and suppliers.

4.3.4.2.7.2.1 Maintenance Contracts Screens

This screen provides the ability enter and maintain contracts numbers for repair contracts with vendors and suppliers. The contract number is the key field and this should be the actual number assigned by Purchasing or the Vendor. The operator may /Z, zoom from the contract number to view all EIN items designated as belonging to this contract.

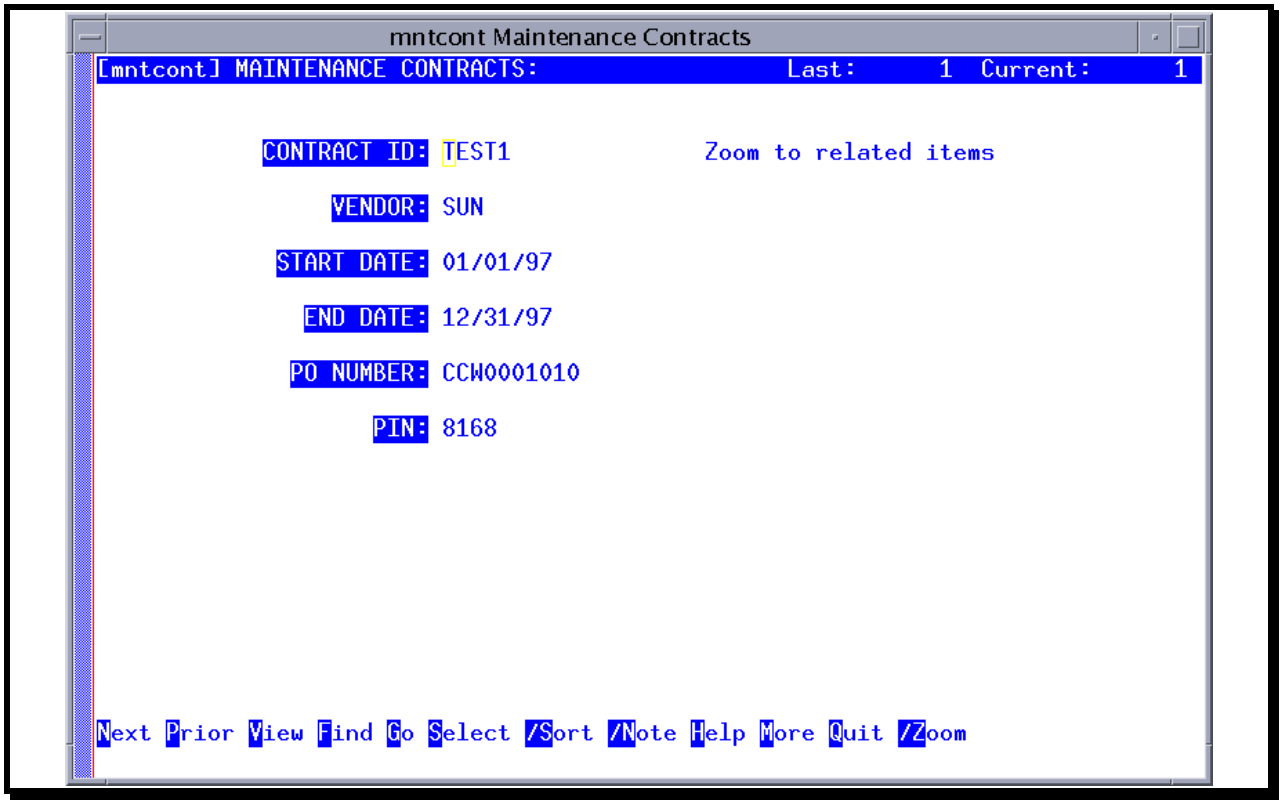


Figure 4.3.4-51. Maintenance Contracts CHUI

Bottom Line Commands:

- **/A**dd Add (store) the displayed record (data on the screen) to the data base.
- **/C**opy Copy the "tagged" displayed fields (data on the screen) to other fields.
- **/D**elete Delete the displayed record (data on the screen) from the data base.
- **/I**nsert Insert (store) the displayed record (data on the screen) in sequence to the data base
- **/M**odify Modify (store) the displayed record (data on the screen) in the data base.
- **/N**ote Add a note to the displayed record (data on the screen).
- **/S**ort Sort on the selected field of the displayed record (data on the screen).
- **/Z**oom Display a list of all the values of the selected field in the data base.
- **V**iew Toggles between "form" or record display and "table" or list display.

Table 4.3.4-50. Maintenance Contracts Field Descriptions

Field Name	Data Type	Size	Description
CONTRACT ID	String	15	The user will enter the actual ID as assigned by Purchasing or provided by the vendor.
VENDOR	String	6	This field is used to enter the Vendor code whom the item was purchased from. The user may zoom to the Vendor data file and pick the desired code. NOTE: This data must be previously entered using screen Vendor Master Maintenance (vmasts).
START DATE	Date	2	Enter the date the contract is to become effective.
END DATE	Date	2	Enter the date the contract will expire.
PO NUMBER	String	10	The user will enter the Purchase Order Number in this field for item selection when adding children items. The user will use the PO Number or the Vendor Code in he next field. For Receipts the field is filled in by the Receiving system and designates the Purchase Order the item was received against.
PIN	String	20	Enter the PIN number applicable for authorization for vendor contact.

Remember to press <ENTER> after each field.

4.3.4.2.7.3 Authorized Employees

Authorized Employees provides the ability enter and maintain employee codes for employees who have been permitted access to the vendor for repair notification.

4.3.4.2.7.3.1 Authorized Employees Screens

This screen provides the ability enter and maintain employee codes for employees who have been permitted access to the vendor for repair notification.

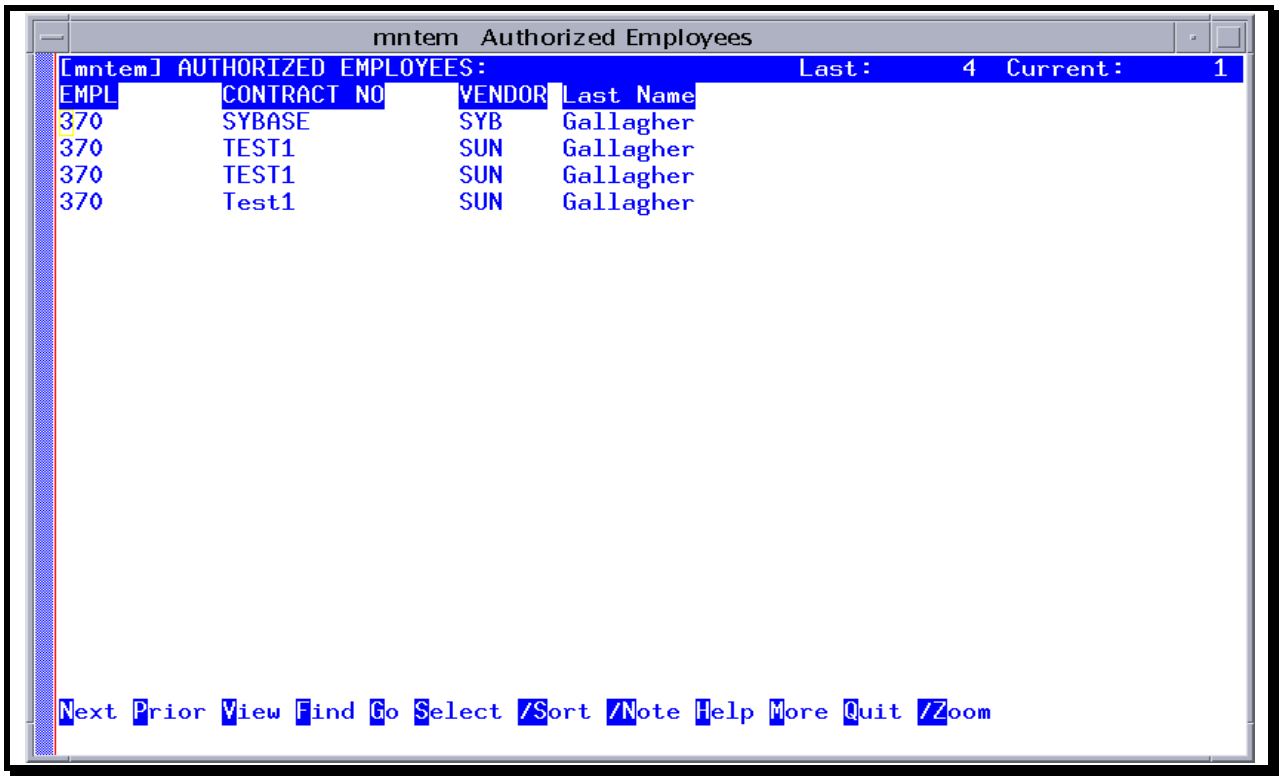


Figure 4.3.4-52. Authorized Employees CHUI

Bottom Line Commands:

- **/A**dd Add (store) the displayed record (data on the screen) to the data base.
- **/C**opy Copy the "tagged" displayed fields (data on the screen) to other fields.
- **/D**elete Delete the displayed record (data on the screen) from the data base.
- **/I**nsert Insert (store) the displayed record (data on the screen) in sequence to the data base
- **/M**odify Modify (store) the displayed record (data on the screen) in the data base.
- **/N**ote Add a note to the displayed record (data on the screen).
- **/S**ort Sort on the selected field of the displayed record (data on the screen).
- **/Z**oom Display a list of all the values of the selected field in the data base.
- **V**iew Toggles between "form" or record display and "table" or list display.

Table 4.3.4-51. Authorized Employees Field Descriptions

Field Name	Data Type	Size	Description
EMPL	String	10	Enter the employee code.
CONTRACT NO	String	10	Enter the maintenance contract number.
VENDOR	String	6	This field is used to enter the Vendor code whom the item was purchased from. The user may zoom to the Vendor data file and pick the desired code. NOTE: This data must be previously entered using screen Vendor Master Maintenance (vmasts).
Last Name	String	30	This field reflects the employee last name from the employee master file.

Remember to press <ENTER> after each field.

4.3.4.2.7.4 Work Order Entry

Work Order Entry provides the ability enter Work Orders for repairs.

4.3.4.2.7.4.1 Work Order Entry Screens

This screen provides the ability enter Work Orders for repairs. The operator will complete the required fields and upon exit of the screen, the system copies in all of the EIN children to the line item file. This screen is always presented in ADD mode.

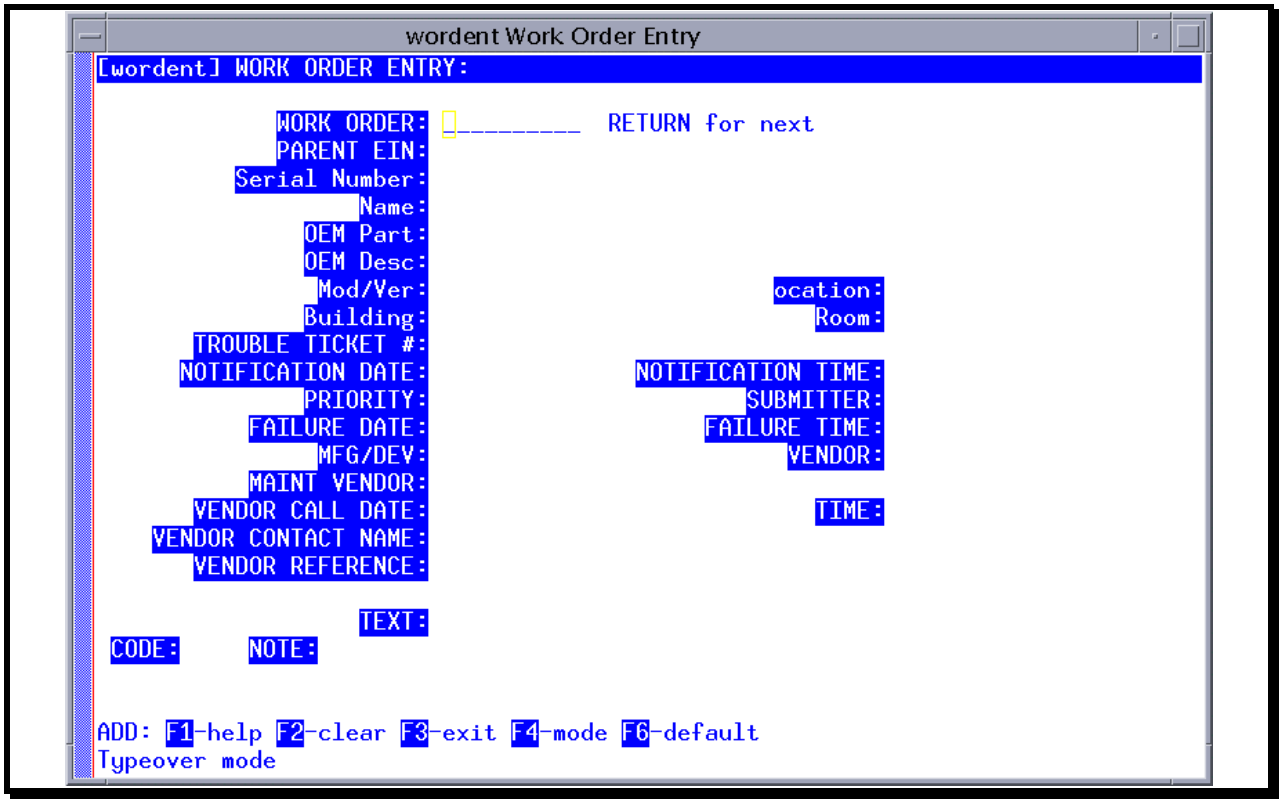


Figure 4.3.4-53. Work Order Entry CHUI

Bottom Line Commands:

- ADD MODE: F1,F2,F3,F4,F6
- **/A**dd Add (store) the displayed record (data on the screen) to the data base.
- **/C**opy Copy the "tagged" displayed fields (data on the screen) to other fields.
- **/D**elete Delete the displayed record (data on the screen) from the data base.
- **/I**nsert Insert (store) the displayed record (data on the screen) in sequence to the data base
- **/M**odify Modify (store) the displayed record (data on the screen) in the data base.
- **/N**ote Add a note to the displayed record (data on the screen).
- **/S**ort Sort on the selected field of the displayed record (data on the screen).
- **V**iew Toggles between "form" or record display and "table" or list display.
- **/I**tems This command invokes the items page of the structure manager to allow the user to add or modify children EIN items.

Table 4.3.4-52. Work Order Entry Field Descriptions (1 of 2)

Field Name	Data Type	Size	Description
WORK ORDER	String	10	This is the actual Work Order number. The operator should always press RETURN to obtain the next number sequentially assigned by the system.
PARENT EIN	String	14	This field is the Parent EIN for the installation/structure. The user may /Z, Zoom at this field to view the entire EIN data base.
Serial Number through Room	MULTI-FIELD		These fields are all reflected from the EIN file for the Parent as entered.
TROUBLE TICKET #	String	15	Enter the applicable trouble ticket number here
NOTIFICATION DATE	Date	2	Notification Date
NOTIFICATION TIME	Time	2	Notification Time
PRIORITY	String	1	This is a user controlled field and any value may be entered.
SUBMITTER	String	10	Enter the employee code for the person who submitted the problem and caused the work order to be opened. The operator may /Z, zoom to the employee file.
FAILURE DATE	Date	2	Enter actual failure date.
FAILURE TIME	String	2	Enter actual failure time.

Table 4.3.4-52. Work Order Entry Field Descriptions (2 of 2)

Field Name	Data Type	Size	Description
MFR/DEV	String	6	This field is used to enter the Manufacturer or Developer ID. The user may zoom to the appropriate data file and pick the desired code. NOTE: This data must be previously entered with screen Vendor Master Maintenance (vmasts).
VENDOR	String	6	This field is used to enter the Vendor code whom the item was purchased from. The user may zoom to the Vendor data file and pick the desired code. NOTE: This data must be previously entered using screen Vendor Master Maintenance (vmasts).
MAINT VENDOR	String	6	This field is used to enter the code for the vendor who is the maintenance vendor. The user may zoom to the Vendor data file and choose the appropriate code. NOTE: This information must be previously entered using screen Vendor Master Maintenance (vmasts).
VENDOR CALL DATE	Date	2	Date the vendor was called and informed of the problem.
TIME	Time	2	Time the vendor was called and informed of the problem.
VENDOR CONTACT NAME	String	30	Vendor point of contact
VENDOR REFERENCE	String	20	User has option to enter any information in reference to the vendor
CODE	String	2	The administrator can set up codes for their specific needs if desired.
NOTE	String	60	This field is used to enter a 60 character note attached to this item.
TEXT	String	8	Press /Z at this prompt to obtain a free form text window. The operator should enter the failure / repair details in this window. When complete, press F3 to exit the text window.

Remember to press <ENTER> after each field.

4.3.4.2.7.4.2 Item Page for Work Order Entry

The Work Order Entry **Item** option provides a list of the components if the Parent EIN specified in the Work Order.

4.3.4.2.7.4.2.1 Item Page for Work Order Entry Screens

The Work Order Entry **Item** option will display the following screen.

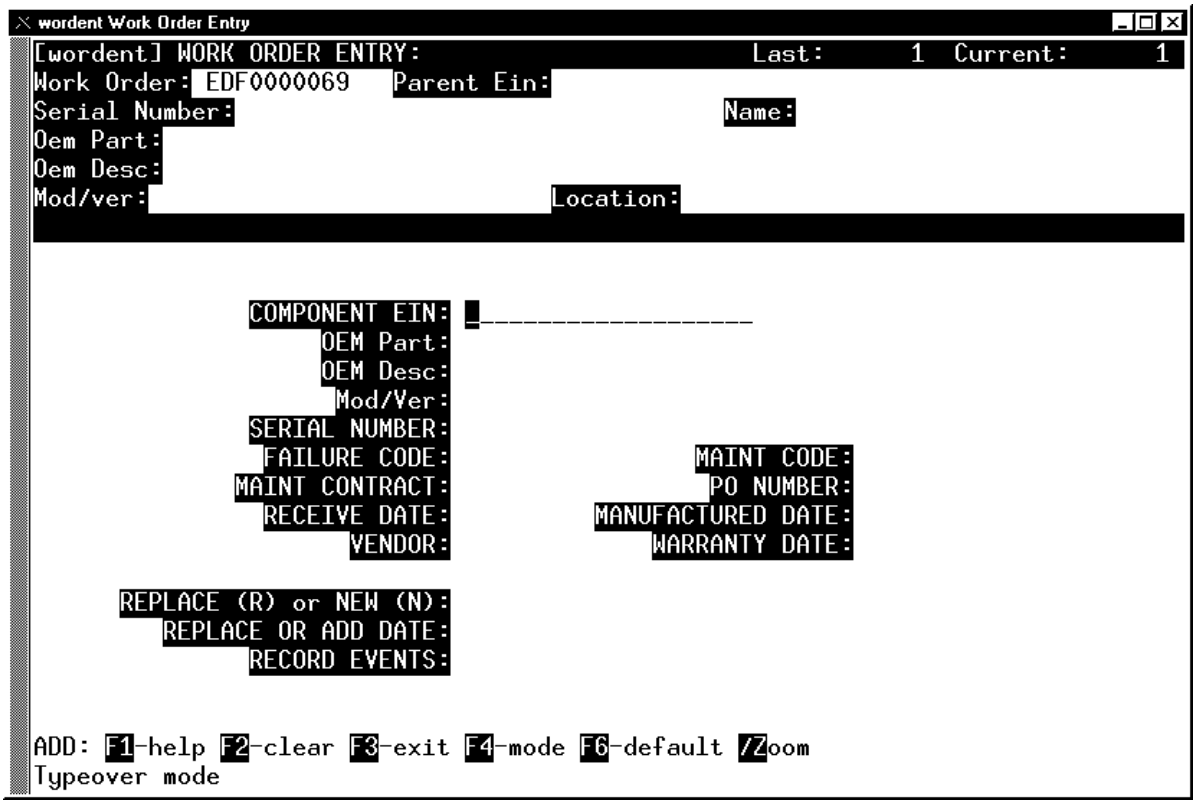


Figure 4.3.4-54. Item Page for Work Order Entry CHUI

Bottom Line Commands:

- ADD MODE: F1,F2,F3,F4,F6
- **/A**dd Add (store) the displayed record (data on the screen) to the data base.
- **/C**opy Copy the "tagged" displayed fields (data on the screen) to other fields.
- **/D**elete Delete the displayed record (data on the screen) from the data base.
- **/I**nsert Insert (store) the displayed record (data on the screen) in sequence to the data base
- **/M**odify Modify (store) the displayed record (data on the screen) in the data base.
- **/N**ote Add a note to the displayed record (data on the screen).
- **/S**ort Sort on the selected field of the displayed record (data on the screen).
- **V**iew Toggles between "form" or record display and "table" or list display.
- **/I**tems This command invokes the items page of the structure manager to allow the user to add or modify children EIN items.

Table 4.3.4-53. Item Page for Work Order Entry Field Descriptions (1 of 2)

Field Name	Data Type	Size	Description
Work Order	String	10	This is the actual Work Order number. The operator should always press RETURN to obtain the next number sequentially assigned by the system.
Parent Ein	String	14	This field is the Parent EIN for the installation/structure. The user may /Z, Zoom at this field to view the entire EIN data base.
Serial Number through Location	MULTI-FIELD		These fields are all reflected from the EIN file for the Parent as entered.
COMPONENT EIN	String	35	This field is the component EIN number of the Parent EIN.
OEM Part	String	34	This field is the OEM part number reflected from the EIN record of the child.
OEM Desc (WO)	String	40	This field reflects the description of the OEM PART NUMBER entered in the field above, but provides the ability for the user to modify it in the EIN file.
MOD/VER	String	24	This field is used to enter the actual Model and or Version of the item. If the user had chosen a known OEM Part, this field will be written with the information from this file.
SERIAL NUMBER	String	30	This field is for the entry of the serial number of the product being entered. If the item does not contain a serial number of it's own, the system will assign an internal number prefixed with the Site abbreviation and contain a sequentially assigned number. Pressing RETURN at the field prompt automatically performs this internal assignment
FAILURE CODE	String	2	Code identifying the failure
MAINT CODE	String	3	The user will enter any desired code in this field.
MAINT CONTRACT	String	15	This field is used to enter the Maintenance Contract number for maintenance on this particular item. The user may zoom to the Contract data file and choose the desired contract number. NOTE: This data must be previously enter with screen Maintenance Contracts (mntcont).
PO NUMBER	String	10	The user will enter the Purchase Order Number in this field for item selection when adding children items. The user will use the PO Number or the Vendor Code in the next field. For Receipts the field is filled in by the Receiving system and designates the Purchase Order the item was received against.
RECEIVE DATE	Date	2	The date the item was received.
MANUFACTURED DATE	Date	2	Date Manufactured

Table 4.3.4-53. Item Page for Work Order Entry Field Descriptions (2 of 2)

Field Name	Data Type	Size	Description
VENDOR	String	6	This field is used to enter the Vendor code whom the item was purchased from. The user may zoom to the Vendor data file and pick the desired code. NOTE: This data must be previously entered using screen Vendor Master Maintenance (vmasts).
WARRANTY DATE (WO)	Date	2	*This field is the end date for the warranty period.*
REPLACE (R) or NEW (N)	String	1	Enter an 'R' in this field for the Child EIN that had been replaced in the machine. When entering a new item, be sure to place an 'N' in this field to designate the record as being new.
REPLACE OR ADD DATE	String	8	*Date add or replace occurred.*
RECORD EVENTS	String	1	*Flag to indicate the events are to be recorded.*

4.3.4.2.7.5 Work Order Modification

Work Order Modification provides the ability to modify Work Orders for repairs.

4.3.4.2.7.5.1 Work Order Modification Screens

This screen provides the ability to modify Work Orders for repairs. This screen should be used when the repair has been completed and all appropriate information about the repair is known. The operator will enter or modify information in the fields as appropriate then invoke the items page to view the EIN children for the parent. In this screen, the operator will designate which item had been replaced by placing an 'R' in the appropriate field and entering the new item by using the ADD capability of the screen. When complete and upon exit of the items screen, the system performs the necessary transactions. The operator also has the ability with this screen to enter delay times and chargeable times. Press the 'R' key to move to the next screen to the right to maintain delay times and then again to maintain chargeable times.

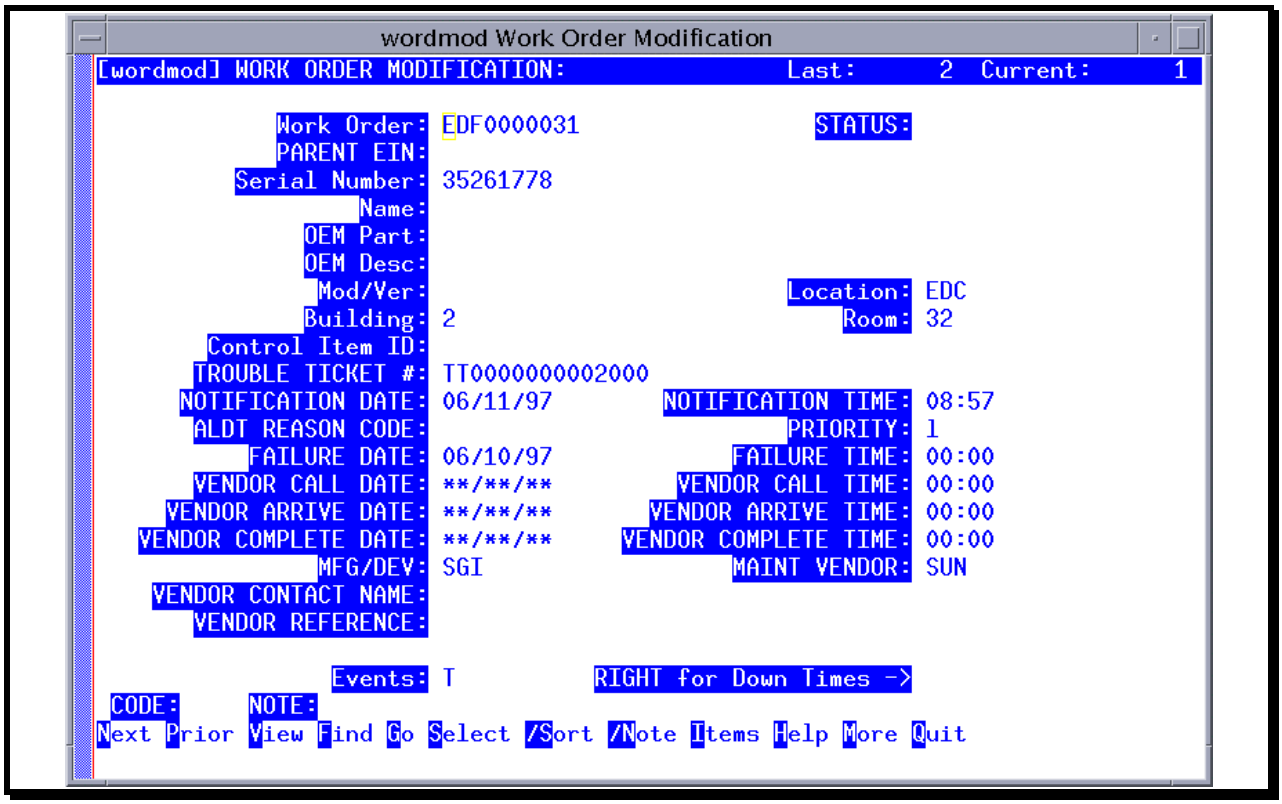


Figure 4.3.4-55. Work Order Modification Screen

Bottom Line Commands:

- **/A**dd Add (store) the displayed record (data on the screen) to the data base.
- **/C**opy Copy the "tagged" displayed fields (data on the screen) to other fields.
- **/D**elete Delete the displayed record (data on the screen) from the data base.
- **/I**nsert Insert (store) the displayed record (data on the screen) in sequence to the data base
- **/M**odify Modify (store) the displayed record (data on the screen) in the data base.
- **/N**ote Add a note to the displayed record (data on the screen).
- **/S**ort Sort on the selected field of the displayed record (data on the screen).
- **/Z**oom Display a list of all the values of the selected field in the data base.
- **Copy**-bill This command allows the user to copy the Bill of Material for this item to create a new item's BOM.
- **I**tems This command invokes the items page of the structure manager to allow the user to add or modify children EIN items.
- **V**iew Toggles between "form" or record display and "table" or list display.
  RIGHT for Down Times -><-<- to LEFT to return to main page

Table 4.3.4-54. Work Order Modification Field Descriptions (1 of 2)

Field Name	Data Type	Size	Description
WORK ORDER	String	10	This is the actual Work Order number. The operator should always press RETURN to obtain the next number sequentially assigned by the system.
STATUS	String	1	Status code for TERMS CODE
PARENT EIN	String	14	This field is the Parent EIN for the installation/structure. The user may /Z, Zoom at this field to view the entire EIN data base.
Serial Number through Control Item ID	MULTI-FIELD		These fields are all reflected from the EIN file for the Parent as entered.
TROUBLE TICKET #	String	15	Enter the applicable trouble ticket number here
NOTIFICATION DATE and TIME	MULTI-FIELD		These fields are initialized with the current date and time and can be modified.
ALDT REASON CODE	String	10	Enter the reason code for the ALDT.
PRIORITY	String	1	This is a user controlled field and any value may be entered.
FAILURE DATE and TIME	MULTI-FIELD		Enter actual failure date and time.
ALDT	Floating	9.1	This field is used to enter the known (actual) ALDT time in hours.
VENDOR CALL DATE and TIME	MULTI-FIELD		Enter the date and time the vendor actually arrived to perform the repairs.
VENDOR ARRIVE DATE and TIME	MULTI-FIELD		Enter the date and time the vendor actually arrived to perform the repairs.
VENDOR COMPLETE DATE and TIME	MULTI-FIELD		Enter the actual date and time the vendor completed the repairs.
MFR/DEV	String	6	This field is used to enter the Manufacturer or Developer ID. The user may zoom to the appropriate data file and pick the desired code. NOTE: This data must be previously entered with screen Vendor Master Maintenance (vmasts).
MAINT VENDOR	String	6	This field is used to enter the code for the vendor who is the maintenance vendor. The user may zoom to the Vendor data file and choose the appropriate code. NOTE: This information must be previously entered using screen Vendor Master Maintenance (vmasts).
VENDOR CONTACT NAME	String	30	Vendor point of contact

Table 4.3.4-54. Work Order Modification Field Descriptions (2 of 2)

Field Name	Data Type	Size	Description
VENDOR REFERENCE	String	20	User has option to enter any information in reference to the vendor
Events	String	30	Name of the event
CODE	String	2	The administrator can set up codes for their specific needs if desired.
NOTE	String	60	This field is used to enter a 60 character note attached to this item.

Remember to press <ENTER> after each field.

4.3.4.2.7.5.2 Delay Times Page for Work Order Modification

Delay Times Page provides the ability to maintain delay date and times to be used for downtime calculations.

4.3.4.2.7.5.2.1 Delay Times Page for Work Order Modification Screens

This screen provides the ability to maintain delay date and times to be used for downtime calculations.

```
[wordmod] WORK ORDER MODIFICATION:                Last:______ Current:______

<-<- LEFT to return to main page _ RIGHT for Charge Times ->->
    START DATE: __/__/__                      END DATE: __/__/__
    START TIME: ___:___                       END TIME: ___:___
         REASON:_____________

    START DATE: __/__/__                      END DATE: __/__/__
    START TIME: ___:___                       END TIME: ___:___
         REASON:_____________

    START DATE: __/__/__                      END DATE: __/__/__
    START TIME: ___:___                       END TIME: ___:___
         REASON:_____________

    START DATE: __/__/__                      END DATE: __/__/__
    START TIME: ___:___                       END TIME: ___:___
         REASON:_____________
```

Figure 4.3.4-56. Delay Times Page for Work Order Modification CHUI

Bottom Line Commands:

None.

Table 4.3.4-55. Delay Times Page for Work Order Modification Field Descriptions

Field Name	Data Type	Size	Description
START DATE and END DATE	MULTI-FIELD		These fields are used to enter the beginning and ending dates for known delay times in the repair of a system.
START TIME and END TIME	MULTI-FIELD		These fields are used to enter the beginning and ending times associated with the dates above for known delay times in the repair of a system.
REASON	String	4	Enter the appropriate reason code for the delay entered.

Remember to press <ENTER> after each field.

4.3.4.2.7.5.3 Chargeable Hours Page for Work Order Modification

Chargeable Hours Page provides the ability to maintain chargeable hours to be used in calculations for downtime.

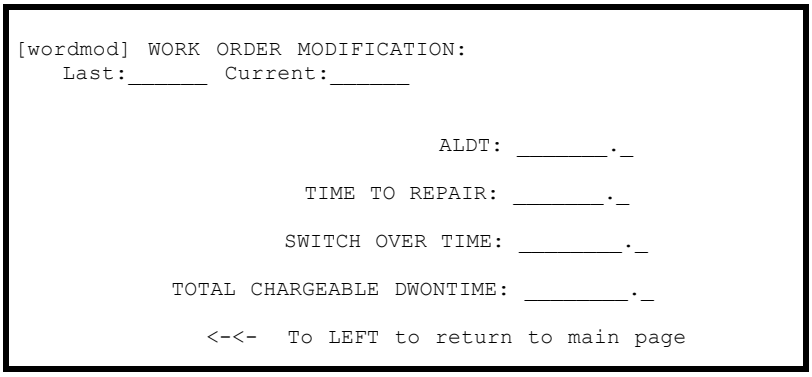


Figure 4.3.4-57. Chargeable Hours Page for Work Order Modification CHUI

4.3.4.2.7.5.3.1 Chargeable Hours Page for Work Order Modification Screens

This screen provides the ability to maintain chargeable hours to be used in calculations for downtime.

Bottom Line Commands:

None.

Table 4.3.4-56. Chargeable Hours Page for Work Order Modification Field Descriptions

Field Name	Data Type	Size	Description
ALDT	Floating	9.1	This field is used to enter the known (actual) ALDT time in hours.
TIME TO REPAIR	Time	2	This field is used to enter the known time the repair required in hours.
SWITCH OVER TIME	String	5	Enter the total hours required for switch over.
TOTAL CHARGEABLE DOWNTIME	String	5	Enter the total hours to be charged for downtime.

Remember to press <ENTER> after each field.

4.3.4.2.7.5.4 Items Page for Work Order Modification

Items Page provides the ability to designate which items have been replaced and to enter new items.

4.3.4.2.7.5.4.1 Page for Work Order Modification Screens

This screen provides the ability to designate which items have been replaced and to enter new items. This screen should be used when the repair has been completed and all appropriate information about the repair is known. In this screen, the operator will designate which item had been replaced by placing an 'R' in the appropriate field for the correct item and enter the new item by using the ADD capability of the screen. When complete and upon exit of the screen, the system performs the necessary transactions.

```
                                                Last: ____  Current: _____

                 COMPONENT EIN: ____________________
                       OEM Part: ____________________________________
                       OEM Desc: ____________________________________________
                        Mod/Ver: ________________________
                  SERIAL NUMBER: ____________________________
                   FAILURE CODE: __________      MAINT CODE: ___
                 MAINT CONTRACT: ______________  PO NUMBER: __________
                   RECEIVE DATE: __/__/__ MANUFACTURED DATE: ____
                         VENDOR: ______        WARRANTY DATE: __/__/__

          PLACE (R) or NEW (N): _
           REPLACE OR ADD DATE: __/__/__
                 RECORD EVENTS: _

Next Prior View Find Go Select /Sort /Note Copy-bill Help More Quit
```

Figure 4.3.4-58. Items Page for Work Order Modification - CHUI

Bottom Line Commands:

None.

Table 4.3.4-57. Items Page for Work Order Modification Field Descriptions

Field Name	Data Type	Size	Description
COMPONENT EIN	String	35	This field is the component EIN number of the Parent EIN.
EOM Part through WARRANTY DATE	MULTI-FIELD		These fields are all copied from the child EIN record and may be modified in this screen as required.
REPLACE (R) or NEW (N)	String	1	Enter an 'R' in this field for the Child EIN that had been replaced in the machine. When entering a new item, be sure to place an 'N' in this field to designate the record as being new.
TEXT	String	8	Press /Z at this prompt to obtain a free form text window. The operator should enter the failure / repair details in this window. When complete, press F3 to exit the text window.

Remember to press <ENTER> after each field.

4.3.4.2.7.6 Preventative Maintenance Items

Preventative Maintenance Items provides the ability to designate which items in the EIN file should experience preventative maintenance.

4.3.4.2.7.6.1 Preventative Maintenance Items Screens

This screen provides the ability to designate which items in the EIN file should experience preventative maintenance. The operator may perform the DATALOOK select and sort functions to obtain a list of the items to be modified. The operator will then enter a 'Y' in the set field, the frequency of maintenance, the last date maintenance was performed and the due date for the next maintenance operation.

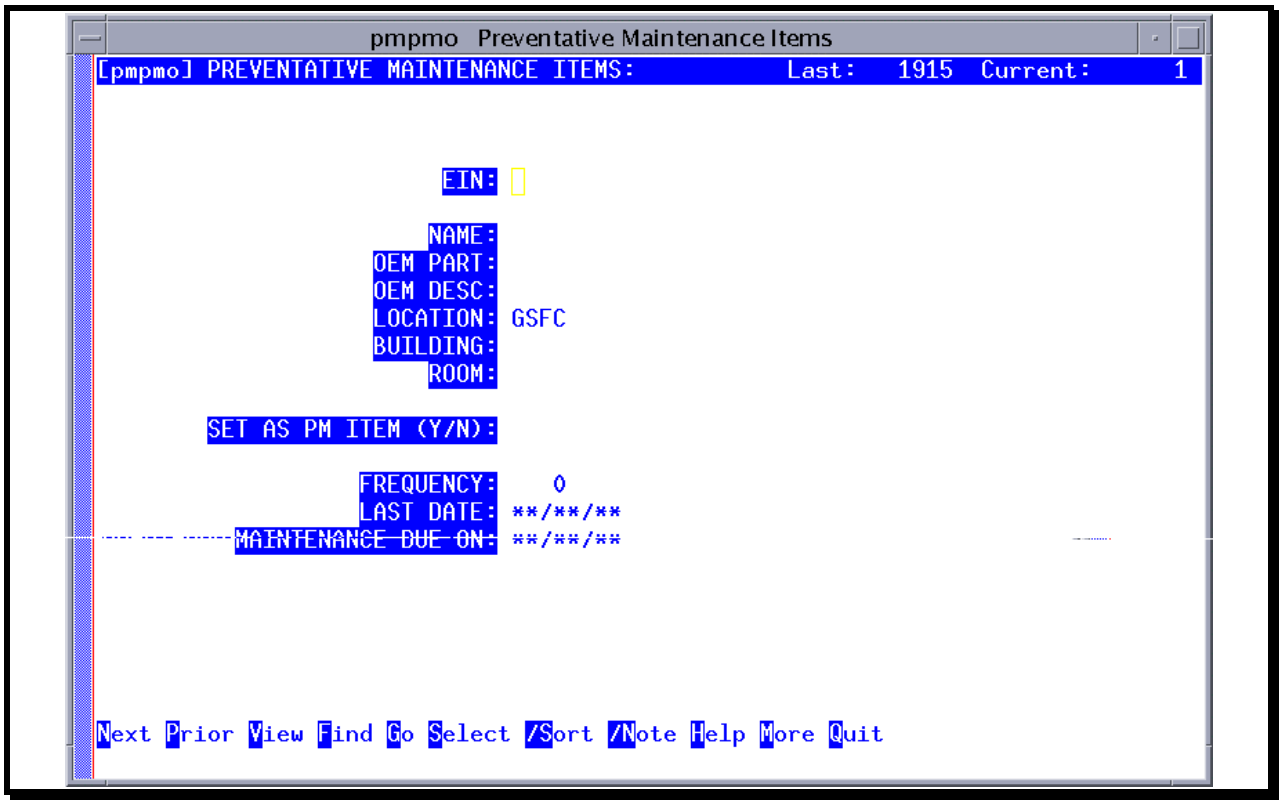


Figure 4.3.4-59. Preventative Maintenance Items CHUI

Bottom Line Commands:

- ADD MODE: F1,F2,F3,F4,F6
- **/A**dd Add (store) the displayed record (data on the screen) to the data base.
- **/C**opy Copy the "tagged" displayed fields (data on the screen) to other fields.
- **/D**elete Delete the displayed record (data on the screen) from the data base.
- **/I**nsert Insert (store) the displayed record (data on the screen) in sequence to the data base
- **/M**odify Modify (store) the displayed record (data on the screen) in the data base.
- **/N**ote Add a note to the displayed record (data on the screen).
- **/S**ort Sort on the selected field of the displayed record (data on the screen).
- **V**iew Toggles between "form" or record display and "table" or list display.

Table 4.3.4-58. Preventative Maintenance Items Field Descriptions

Field Name	Data Type	Size	Description
EIN through ROOM	MULTI-FIELD		These fields are not modifiable by the operator and represent the actual data from the EIN file.
SET AS PM ITEM (Y/N)	String	1	Enter a 'Y' in this field if the item should experience a preventative maintenance operation.
FREQUENCY	Number	3	Enter number of days between PM's.
LAST DATE	Date	2	Enter the last date a PM as performed for this item.
MAINTENANCE DUE ON	String	8	Enter the date the next maintenance is due.

Remember to press <ENTER> after each field.

4.3.4.2.7.7 Generate PM Orders

Generate Preventative Maintenance (PM) Orders provides the ability to generate Work Orders for item needing a PM.

4.3.4.2.7.7.1 Generate PM Orders Screens

This screen provides the ability to generate Work Orders for item needing a PM. When executed, order are created for all items needing a PM prior to the cutoff date entered and prints a summary report of orders created.

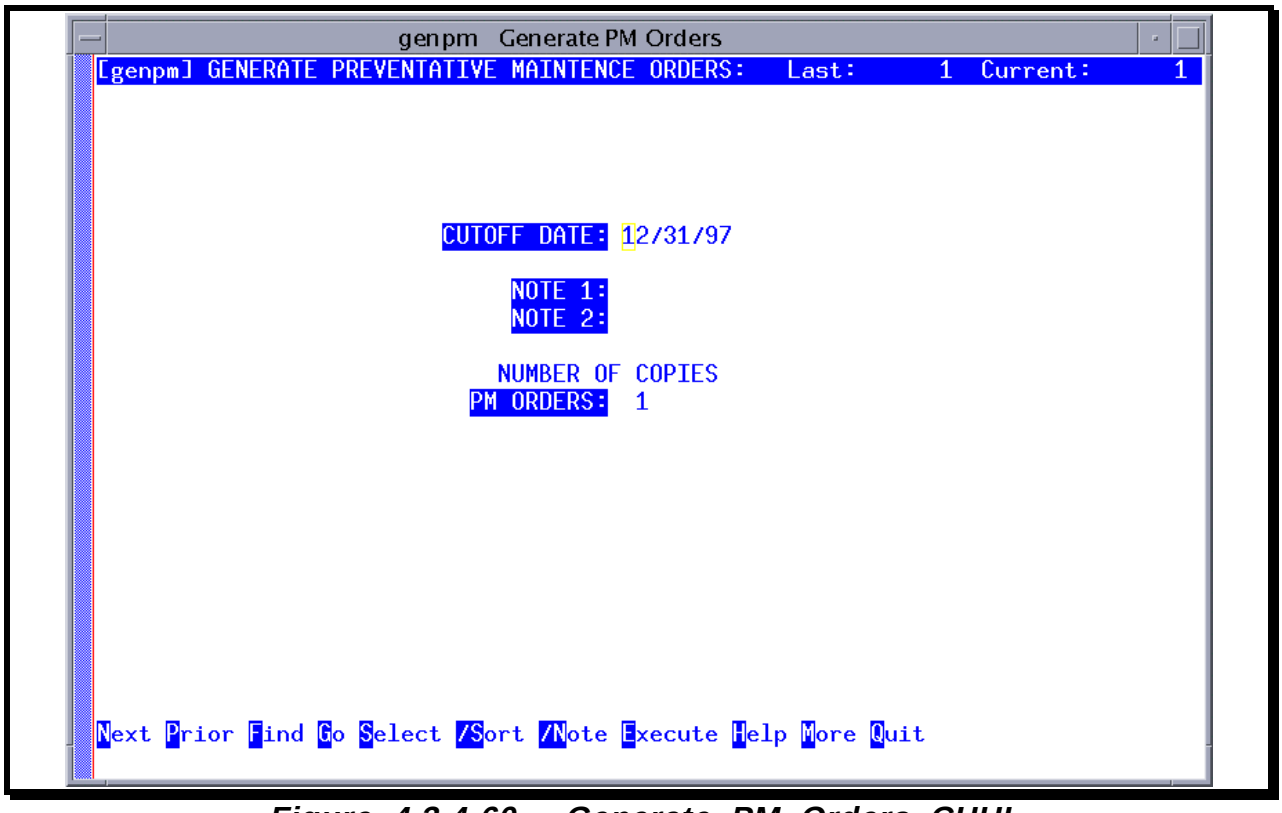


Figure 4.3.4-60. Generate PM Orders CHUI

Bottom Line Commands:

- **/A**dd Add (store) the displayed record (data on the screen) to the data base.
- **/C**opy Copy the "tagged" displayed fields (data on the screen) to other fields.
- **/D**elete Delete the displayed record (data on the screen) from the data base.
- **/I**nsert Insert (store) the displayed record (data on the screen) in sequence to the data base
- **/M**odify Modify (store) the displayed record (data on the screen) in the data base.
- **/N**ote Add a note to the displayed record (data on the screen).
- **/S**ort Sort on the selected field of the displayed record (data on the screen).
- **E**xecute This command invokes the appropriate process and prints a report on the results.

Table 4.3.4-59. Generate PM Orders Field Descriptions

Field Name	Data Type	Size	Description
CUTOFF DATE	String	8	Enter the last date for the system to examine PM items and generate orders.
NOTE 1 and NOTE 2	String	60	Enter any notes to appear on the header of the report.
NUMBER OF COPIES (PM ORDERS)	String	1	Enter any number of copies of the report to print

Remember to press <ENTER> after each field.

4.3.4.2.7.8 Work Order Parts Replacement History

Work Order Parts Replacement History generates a series of reports detailing parts replacement.

4.3.4.2.7.8.1 Work Order Parts Replacement History Screens

This screen generates a series of reports detailing parts replacement. The operator will enter the Work Order number or range of numbers and then execute the process to print the history reports.

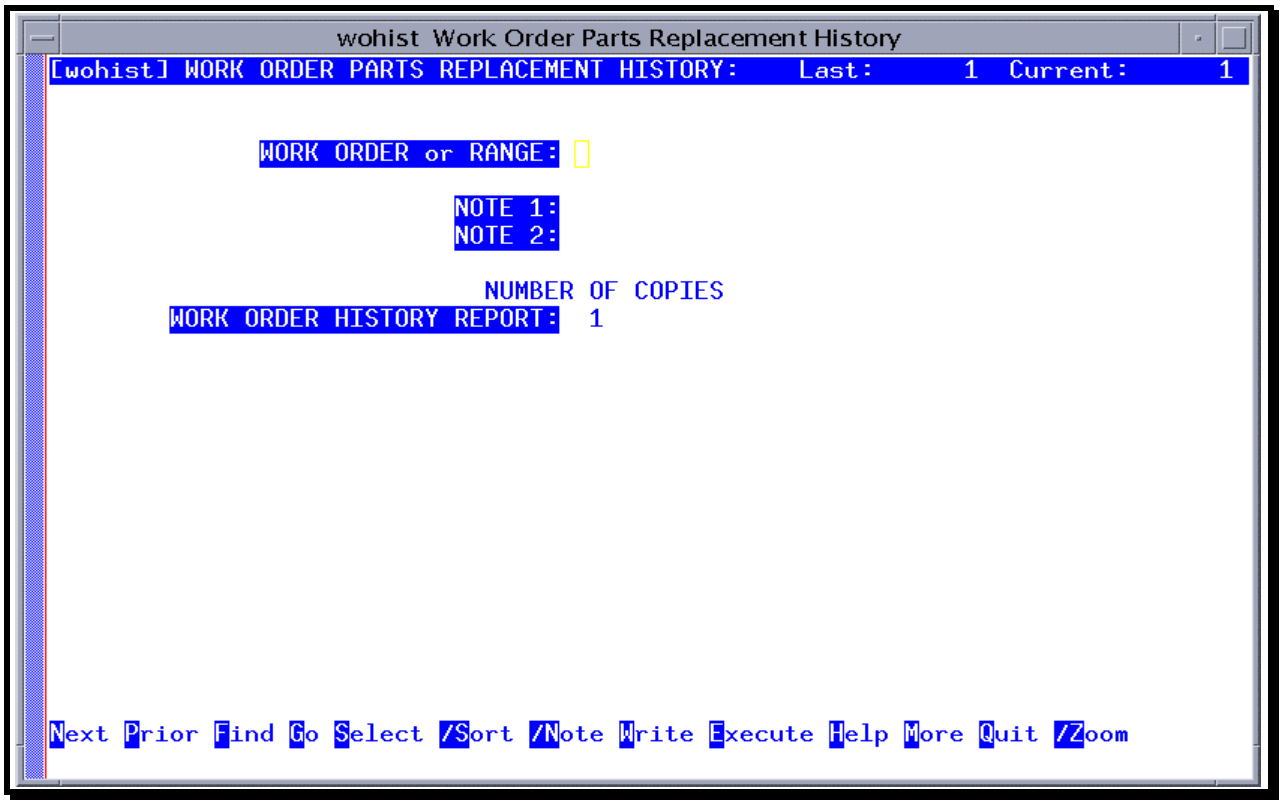


Figure 4.3.4-61. Work Order Parts Replacement History CHUI

Bottom Line Commands:

- **/A**dd Add (store) the displayed record (data on the screen) to the data base.
- **/C**opy Copy the "tagged" displayed fields (data on the screen) to other fields.
- **/D**elete Delete the displayed record (data on the screen) from the data base.
- **/I**nsert Insert (store) the displayed record (data on the screen) in sequence to the data base
- **/M**odify Modify (store) the displayed record (data on the screen) in the data base.
- **/N**ote Add a note to the displayed record (data on the screen).
- **/S**ort Sort on the selected field of the displayed record (data on the screen).
- **/Z**oom Display a list of all the values of the selected field in the data base.
- **E**xecute This command invokes the appropriate process and prints a report on the results.
- **W**rite Saves the current record to a file designated by the operator.

Table 4.3.4-60. Work Order Parts Replacement History Field Descriptions

Field Name	Data Type	Size	Description
WORK ORDER or RANGE	String	25	Enter the Work Order number or range of numbers to examine.
NOTE 1 and NOTE 2	String	60	Enter any notes to appear on the header of the report.
NUMBER OF COPIES (WORK ORDER HISTORY REPORT)	String	1	Enter any number of copies of the report to print

Remember to press <ENTER> after each field.

4.3.4.2.7.9 Maintenance Work Order Reports

Maintenance Work Order Reports provides Work Order Reports for work done on selected machines.

4.3.4.2.7.9.1 Maintenance Work Order Reports Screens

This screen provides Work Order Reports for work done on selected machines.

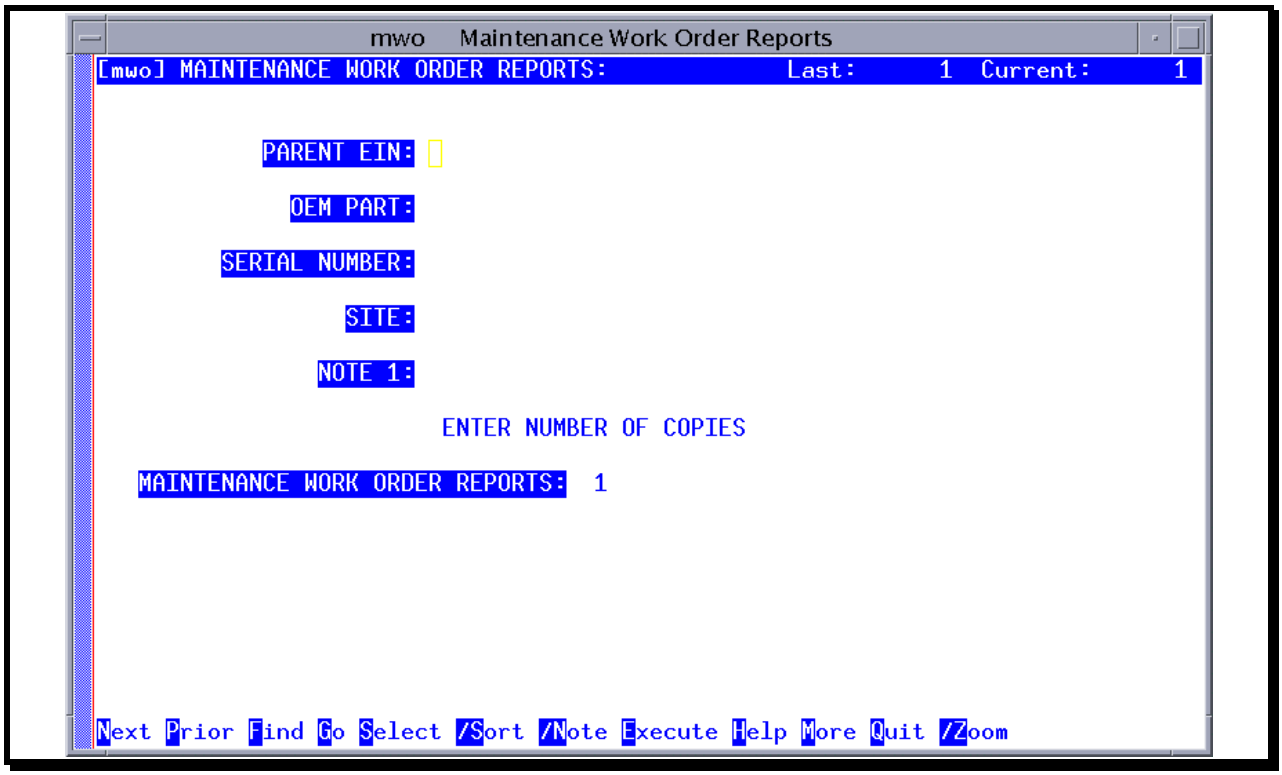


Figure 4.3.4-62. Maintenance Work Order Reports CHUI

Bottom Line Commands:

- **/A**dd Add (store) the displayed record (data on the screen) to the data base.
- **/C**opy Copy the "tagged" displayed fields (data on the screen) to other fields.
- **/D**elete Delete the displayed record (data on the screen) from the data base.
- **/I**nsert Insert (store) the displayed record (data on the screen) in sequence to the data base
- **/M**odify Modify (store) the displayed record (data on the screen) in the data base.
- **/N**ote Add a note to the displayed record (data on the screen).
- **/S**ort Sort on the selected field of the displayed record (data on the screen).
- **/Z**oom Display a list of all the values of the selected field in the data base.
- **E**xecute This command invokes the appropriate process and prints a report on the results.

Table 4.3.4-61. Maintenance Work Order Reports Field Descriptions

Field Name	Data Type	Size	Description
PARENT EIN	String	14	This field is the Parent EIN for the installation/structure. The user may /Z, Zoom at this field to view the entire EIN data base.
OEM PART	String	34	This field is the OEM part number reflected from the EIN record of the child.
SERIAL NUMBER	String	30	This field is for the entry of the serial number of the product being entered. If the item does not contain a serial number of it's own, the system will assign an internal number prefixed with the Site abbreviation and contain a sequentially assigned number. Pressing RETURN at the field prompt automatically performs this internal assignment
SITE (LOCATION)	String	6	This field is used to designate the actual location or site of where the item is. The user may zoom to the Location screen to pick an appropriate code. NOTE : This data must be previously entered with screen Material Location Maintenance (imlocns).
NOTE 1	String	60	This field is used to enter a 60 character note attached to this item.
ENTER NUMBER OF COPIES (MAINTENANCE WORK ORDER REPORTS)	Number	1	Enter any number of copies of the report to print.

Remember to press <ENTER> after each field.

4.3.4.2.7.10 Work Order Status Reports

Work Order Status Reports provides status reports on selected Work Orders.

4.3.4.2.7.10.1 Work Order Status Reports Screens

This screen provides status reports on selected Work Orders.

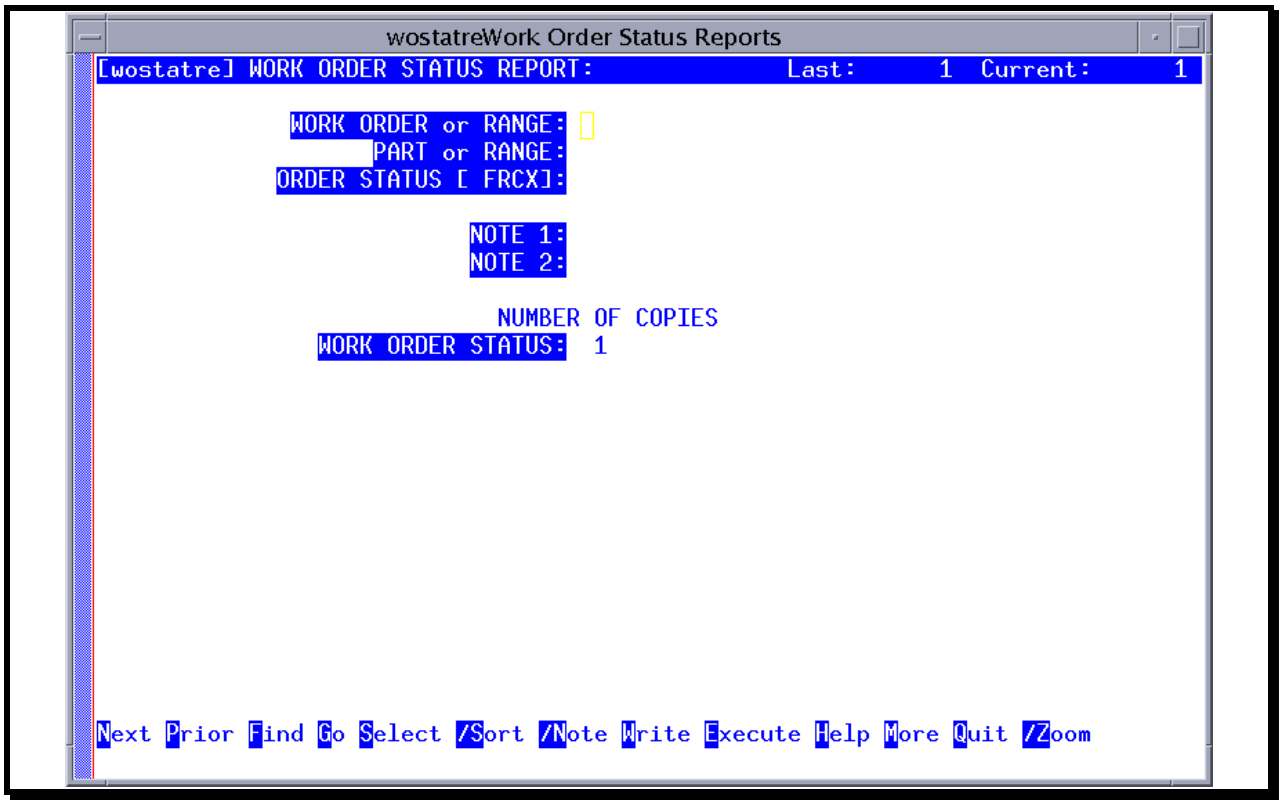


Figure 4.3.4-63. Work Order Status Reports CHUI

Bottom Line Commands:

- **/A**dd Add (store) the displayed record (data on the screen) to the data base.
- **/C**opy Copy the "tagged" displayed fields (data on the screen) to other fields.
- **/D**elete Delete the displayed record (data on the screen) from the data base.
- **/I**nsert Insert (store) the displayed record (data on the screen) in sequence to the data base
- **/M**odify Modify (store) the displayed record (data on the screen) in the data base.
- **/N**ote Add a note to the displayed record (data on the screen).
- **/S**ort Sort on the selected field of the displayed record (data on the screen).
- **/Z**oom Display a list of all the values of the selected field in the data base.
- **E**xecute This command invokes the appropriate process and prints a report on the results.
- **W**rite Saves the current record to a file designated by the operator.

Table 4.3.4-62. Work Order Status Reports Field Descriptions

Field Name	Data Type	Size	Description
WORK ORDER or RANGE	String	25	Enter the Work Order number or range of numbers to examine.
PART (OEM PART NUMBER) or RANGE	String	34	Enter Manufacture or Vendor part number or range to query
ORDER STATUS [FRCX] (STATUS)	String	2	Enter the appropriate status. When the order is first entered, the status is NULL When the order has been printed, the status moves to 'R' for released. When all line items have been received complete, the status moves to 'C' for complete. The status of 'X' is used to manually cancel an order.
NOTE 1	String	60	This field is used to enter a 60 character note attached to this item.
NOTE 2	String	60	This field is used to enter a 2nd 60 character note attached to this item.
ENTER NUMBER OF COPIES (WORK ORDER STATUS)	Number	1	Enter any number of copies of the report to print.

Remember to press <ENTER> after each field.

4.3.4.2.9 ILM Master Menu

The ILM Master Menu provides ILM system administration capabilities. Generally these functions are reserved for the ILM system Administrators.

4.3.4.2.9.1 ILM Master Menu Screens

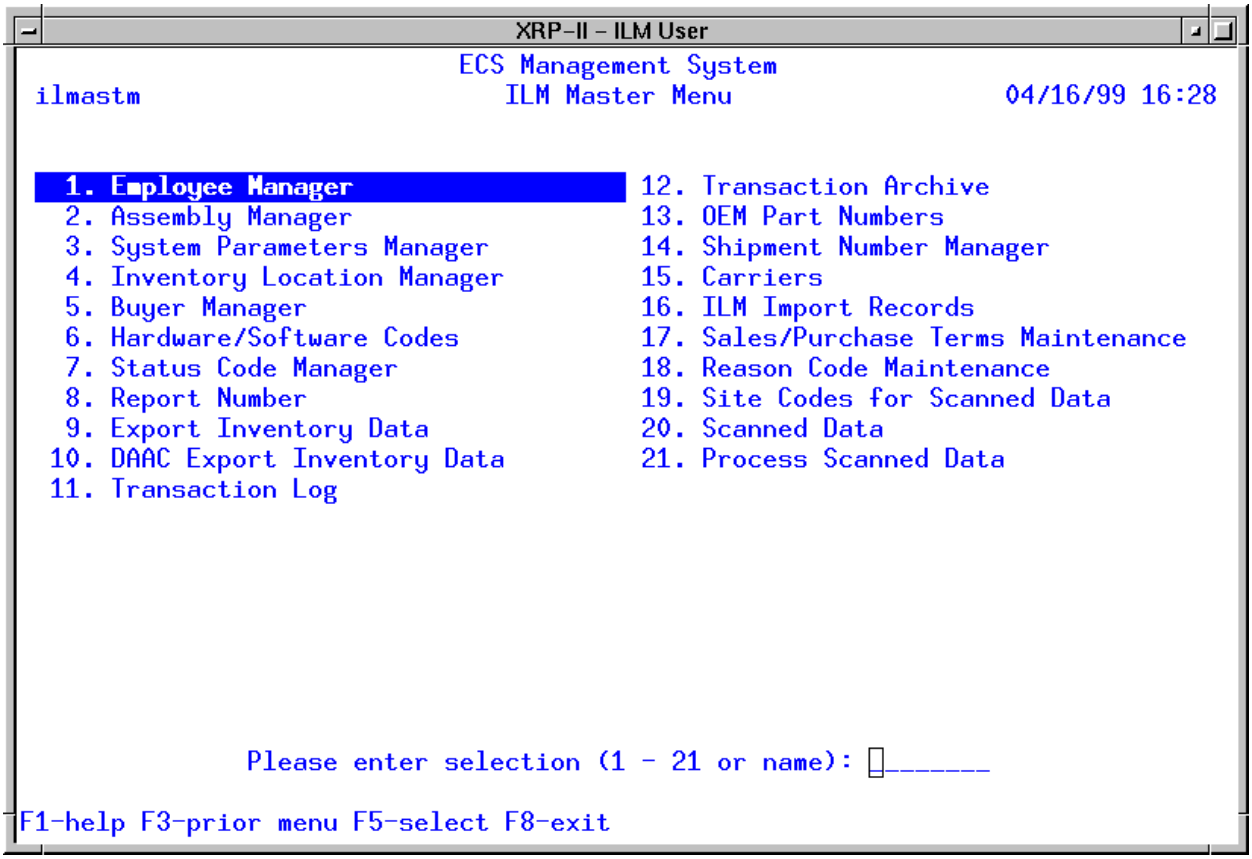


Figure 4.3.4-64. ILM Master Menu CHUI

The ILM Master menu is broken down into the following functions:

Table 4.3.4-63. ILM Master Menu options (1 of 2)

Menu item	Function	Section
Employee Manager	Provides for the maintenance of employee information.	4.3.4.2.9.1
Assembly Manager	Creates the parent/child relationship between components in an assembly.	4.3.4.2.9.2
System Parameters Manager		4.3.4.2.9.3
Inventory Location Manager	Provides for the maintenance of location information used in the inventory and logistics processes.	4.3.4.2.9.4
Buyer Manager	Provides for the maintenance of Buyer information used in the inventory and logistics processes.	4.3.4.2.9.5
Hardware/Software Codes	Provides for the maintenance of the codes used to identify maintenance cost source information in the inventory and logistics processes.	4.3.4.2.9.6
Status Code Manager	Provides for the maintenance of the status codes used to track property and events in the inventory and logistics processes.	4.3.4.2.9.7
Report Number	Provides for the maintenance of the Report Number conversion used to assign numbers to reports.	4.3.4.2.9.8
Export Inventory Data	Provides the assignment of destinations for the transfer of a site's inventory data to another location.	4.3.4.2.9.9
DAAC Export Inventory Data	Provides the assignment of destinations for the transfer of a site's inventory data to the SMC.	4.3.4.2.9.10
Transaction Log	Provides a review of the transactions applied to the .ILM database.	4.3.4.2.9.11
Transaction Archive	Provides the assignment of a destination for archived Transaction Logs with the archiving action	4.3.4.2.9.12
OEM Part Numbers	Provides for the maintenance of OEM Part Numbers information used in the inventory and logistics processes	4.3.4.2.9.13
Shipment Number Manager	Provides for the maintenance of the Shipment Number conversion used to assign numbers to shipments.	4.3.4.2.9.14
Carriers	Provides for the maintenance of Carrier information used in the inventory and logistics processes.	4.3.4.2.9.15
ILM Import Records	Provides for the movement of a file from the drop directory to the application directory, unTar it, and load the data base for all ILM related files.	4.3.4.2.9.16
Sales / Purchase Terms: Maintenance	Provides for the maintenance of the Sales / Purchase Terms information used in the inventory and logistics processes	4.3.4.2.9.17

Table 4.3.4-63. ILM Master Menu options (2 of 2)

Menu item	Function	Section
Reason Code Maintenance	Provides for the maintenance of the reason codes used to justify changes in the configuration.	4.3.4.2.9.18
Site Codes for Scanned Data	Allows user to associate a numeric doe with a DAAC site and building. This code is used by the system when interpreting scanned data	4.3.4.2.9.19
Scanned Data	Provides a view of the data provided by the bar code scanner	4.3.4.2.9.20
Process Scanned Data	Reports discrepancies between the ILM database and scanned data. Updates the ILM database to match scanned data.	4.3.4.2.9.21

4.3.4.2.9.1 Employee Manager

Employee Manager provides for the maintenance of employee information.

4.3.4.2.9.1.1 Employee Manager Screens

This screen provides for the maintenance of employee information.

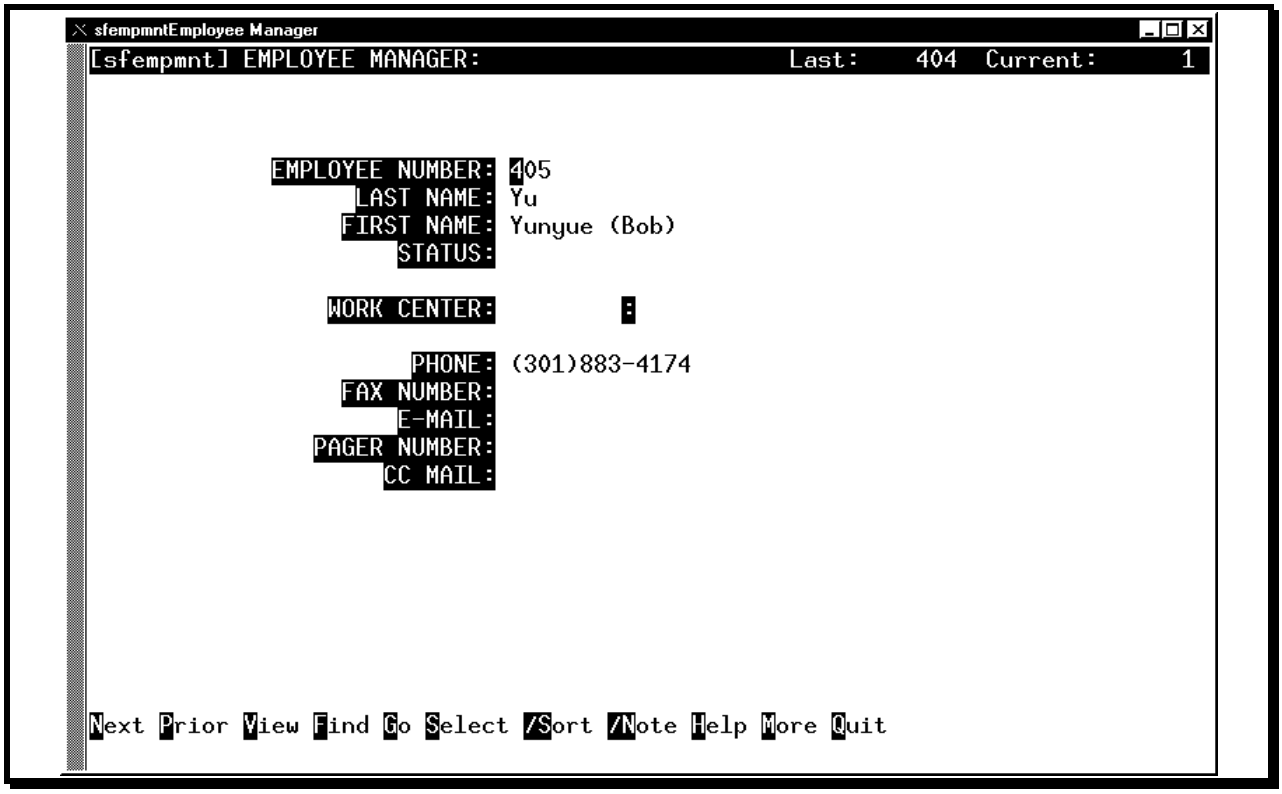


Figure 4.3.4-65. Employee Manager CHUI

Bottom Line Commands:

- **/A**dd Add (store) the displayed record (data on the screen) to the data base.
- **/C**opy Copy the "tagged" displayed fields (data on the screen) to other fields.
- **/D**elete Delete the displayed record (data on the screen) from the data base.
- **/I**nsert Insert (store) the displayed record (data on the screen) in sequence to the data base
- **/M**odify Modify (store) the displayed record (data on the screen) in the data base.
- **/N**ote Add a note to the displayed record (data on the screen).
- **/S**ort Sort on the selected field of the displayed record (data on the screen).
- **V**iew Toggles between "form" or record display and "table" or list display.

Table 4.3.4-64. Employee Manager Field Descriptions

Field Name	Data Type	Size	Description
EMPLOYEE NUMBER (EMPL)	String	10	Enter the employee code.
LAST NAME (EMPLOYEE)	String	30	Last name of the employee described by the displayed code.
FIRST NAME (EMPLOYEE)	String	30	First name of the employee described by the displayed code.
STATUS (EMPLOYEE)	String	1	Status of the employee described by the displayed code.
WORK CENTER (EMPLOYEE)	String	6	Work Center (normally assigned) of the employee described by the displayed code.
PHONE (EMPLOYEE)	String	18	Telephone number of the employee described by the displayed code.
FAX NUMBER (EMPLOYEE)	String	13	FAX number of the employee described by the displayed code.
E-MAIL (EMPLOYEE)	String	30	Enter employee's e-mail address.
PAGER NUMBER (EMPLOYEE)	String	13	Pager Number of the employee described by the displayed code.
CC MAIL (EMPLOYEE)	String	30	CC-mail address of the employee described by the displayed code.

Remember to press <ENTER> after each field.

4.3.4.2.9.2 Assembly Manager

Assembly Manager creates the parent/child relationship between components in an assembly.

4.3.4.2.9.2.1 Assembly Manager Screens

This screen creates the parent/child relationship between components in an assembly.

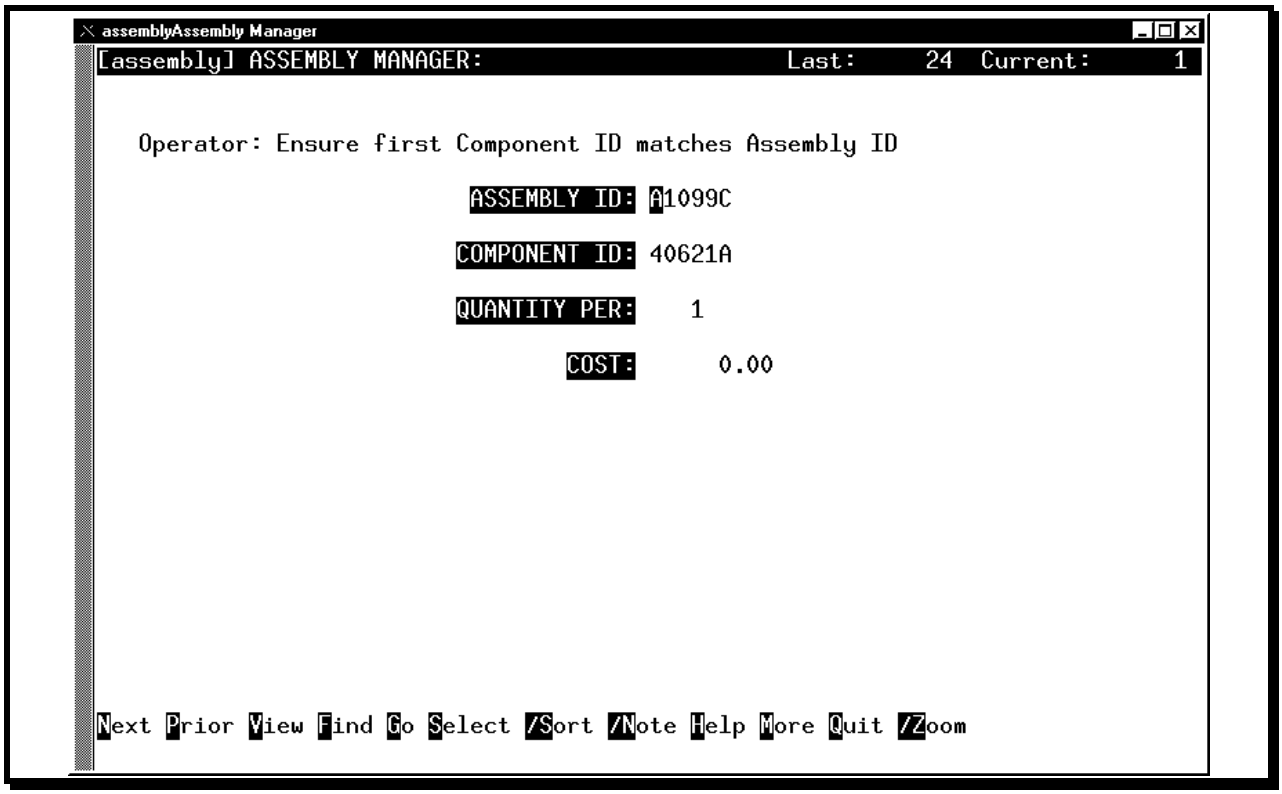


Figure 4.3.4-66. Assembly Manager CHUI

Bottom Line Commands:

- **/A**dd Add (store) the displayed record (data on the screen) to the data base.
- **/C**opy Copy the "tagged" displayed fields (data on the screen) to other fields.
- **/D**elete Delete the displayed record (data on the screen) from the data base.
- **/I**nsert Insert (store) the displayed record (data on the screen) in sequence to the data base
- **/M**odify Modify (store) the displayed record (data on the screen) in the data base.
- **/N**ote Add a note to the displayed record (data on the screen).
- **/S**ort Sort on the selected field of the displayed record (data on the screen).
- **/Z**oom Display a list of all the values of the selected field in the data base.
- **V**iew Toggles between "form" or record display and "table" or list display.

Table 4.3.4-65. Assembly Manager Field Descriptions

Field Name	Data Type	Size	Description
ASSEMBLY ID	String	35	Identifier for the assembly displayed. All components of the assembly can be referenced through this parent id or code.
COMPONENT ID (Assembly)	String	35	Identifier for the specific component of the displayed assembly. The first component of an assembly must have the same id/code as the assembly id.
QUANTITY PER (Assembly)	Floating	10.3	The total number of the displayed components in the assembly.
COST	Floating	9.2	This field is the purchase cost of the item.

Remember to press <ENTER> after each field.

4.3.4.2.9.3 System Parameters Manager

System Parameters Manager provides maintenance for some of the basic/default values used in ILM processes.

4.3.4.2.9.3.1 System Parameters Manager Screens

This screen provides maintenance for some of the basic/default values used in ILM processes. This screen allows each site to customize theses parameters.

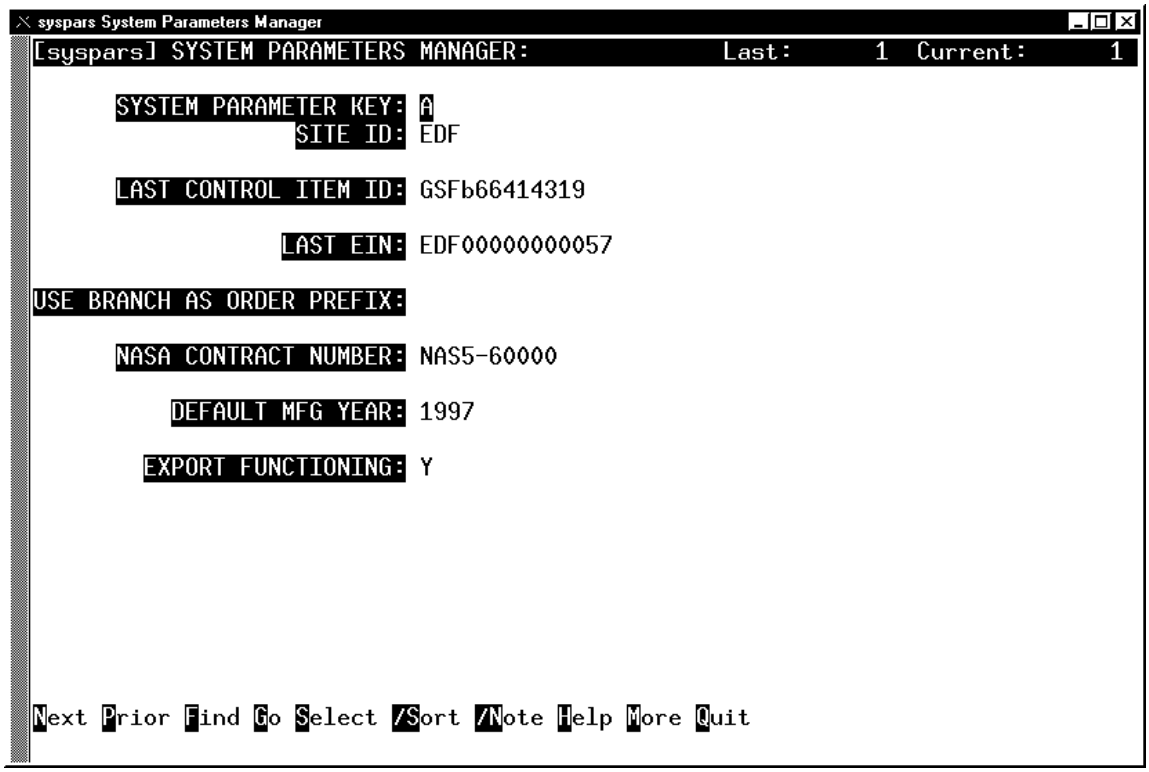


Figure 4.3.4-67. System Parameters Manager CHUI

Bottom Line Commands:

- /**N**ote Add a note to the displayed record (data on the screen).
- /**S**ort Sort on the selected field of the displayed record (data on the screen).

Table 4.3.4-66. System Parameters Manager Field Descriptions

Field Name	Data Type	Size	Description
SYSTEM PARAMETER KEY	String	1	The Key filed of the System Parameter file. The active record has the value A.
SITE ID (LOCATION)	String	6	This field is used to designate the actual location or site of where the item is. The user may zoom to the Location screen to pick an appropriate code. NOTE : This data must be previously entered with screen Material Location Maintenance (imlocns).
LAST CONTROL ITEM ID	String	20	Control Item ID to display as the last ID assigned. A new generation of Control Item IDs will be generated starting with this one.
LAST EIN	String	20	EIN to display as the last EIN assigned. A new generation of EINs will be generated starting with this one.
USE BRANCH AS ORDER PREFIX	String	1	*This option will generate Purchase and Work Orders with the Work Center code for the employee creating the Order as a prefix.*
NASA CONTRACT NUMBER	String	11	Default NASA Contract Number
DEFAULT MFG YEAR	String	4	DEFAULT MFG YEAR
EXPORT FUNCTIONING	String	1	*Allows use of the Export Inventory Data function.*

Remember to press <ENTER> after each field.

4.3.4.2.9.4 Inventory Location Manager

Inventory Location Manager provides for the maintenance of location information used in the inventory and logistics processes.

4.3.4.2.9.4.1 Inventory Location Manager Screens

This screen provides for the maintenance of location information used in the inventory and logistics processes.

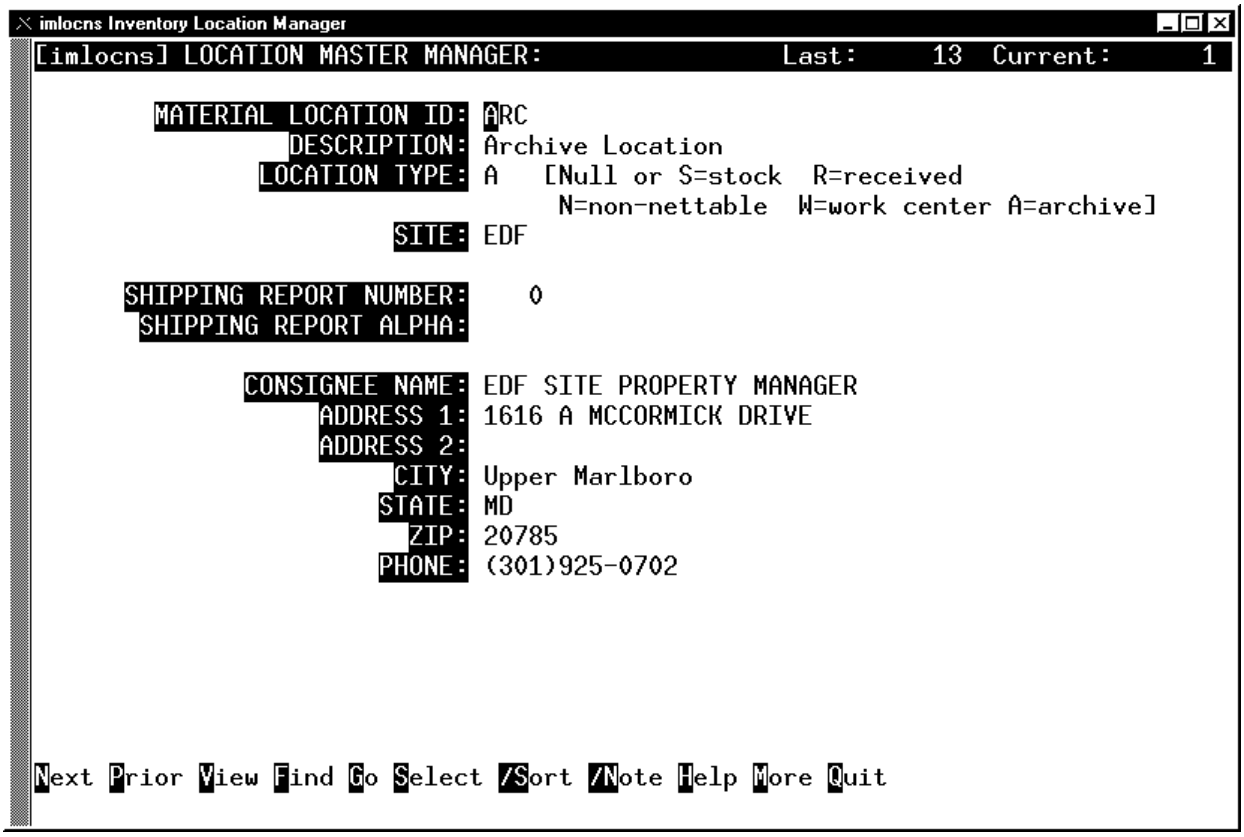


Figure 4.3.4-68. Inventory Location Manager CHUI

Bottom Line Commands:

- /**A**dd Add (store) the displayed record (data on the screen) to the data base.
- /**C**opy Copy the "tagged" displayed fields (data on the screen) to other fields.
- /**D**elete Delete the displayed record (data on the screen) from the data base.
- /**I**nsert Insert (store) the displayed record (data on the screen) in sequence to the data base
- /**M**odify Modify (store) the displayed record (data on the screen) in the data base.
- /**N**ote Add a note to the displayed record (data on the screen).
- /**S**ort Sort on the selected field of the displayed record (data on the screen).
- **V**iew Toggles between "form" or record display and "table" or list display.

Table 4.3.4-67. Inventory Location Manager Field Descriptions

Field Name	Data Type	Size	Description
MATERIAL LOCATION ID	String	6	ID for the location where material can be found.
DESCRIPTION (Material Location)	String	30	Text description of the utility of the site.
LOCATION TYPE (Material Location)	String	1	Specifies the material application at the site: Null or S = stock, R = received, N = non-nettable, W = work center, A = archive.
SITE (LOCATION)	String	6	This field is used to designate the actual location or site of where the item is. The user may zoom to the Location screen to pick an appropriate code. NOTE : This data must be previously entered with screen Material Location Maintenance (imlocns).
SHIPPING REPORT NUMBER	Number	2	This field is the report number assigned to this item when the item was shipped.
SHIPPING REPORT ALPHA	String	2	Shipping report code associating an alpha code to a numeric site code. See Shipment Numbers by Site screen (shipno).
CONSIGNEE NAME	String	30	Name of individual/office responsible for material at the site.
ADDRESS 1 (Consignee)	String	30	First part of address
ADDRESS 2 (Consignee)	String	30	Second part of address.
CITY	String	20	City part of address
STATE	String	2	State 2 character abbreviation of address.
ZIP	String	10	Zip code of address.
PHONE	String	18	Telephone number of address

Remember to press <ENTER> after each field.

4.3.4.2.9.5.1 Buyer Manager

Buyer Manager provides for the maintenance of Buyer information used in the inventory and logistics processes.

4.3.4.2.9.5.1 Buyer Manager Screens

This screen provides for the maintenance of Buyer information used in the inventory and logistics processes.

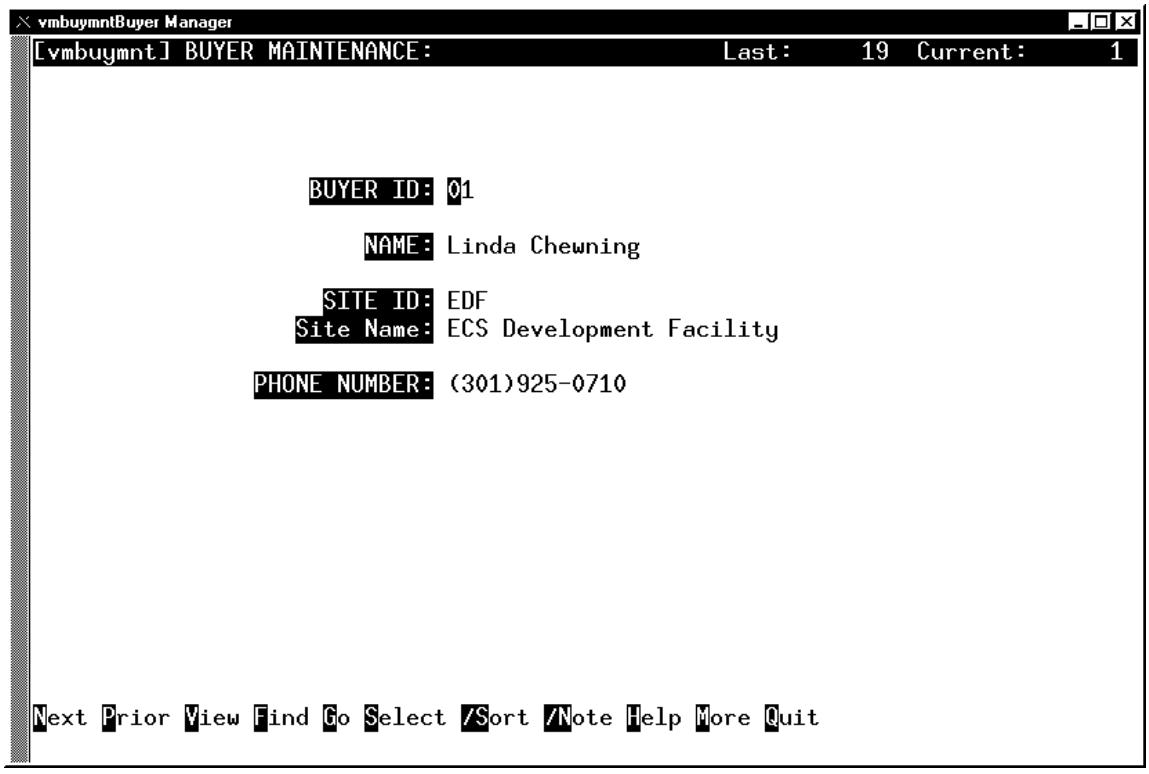


Figure 4.3.4-69. Buyer Manager CHUI

Bottom Line Commands:

- /**A**dd Add (store) the displayed record (data on the screen) to the data base.
- /**C**opy Copy the "tagged" displayed fields (data on the screen) to other fields.
- /**D**elete Delete the displayed record (data on the screen) from the data base.
- /**I**nsert Insert (store) the displayed record (data on the screen) in sequence to the data base
- /**M**odify Modify (store) the displayed record (data on the screen) in the data base.
- /**N**ote Add a note to the displayed record (data on the screen).
- /**S**ort Sort on the selected field of the displayed record (data on the screen).
- **V**iew Toggles between "form" or record display and "table" or list display.

Table 4.3.4-68. Buyer Manager Field Descriptions

Field Name	Data Type	Size	Description
BUYER ID	String	6	Enter the buyer ID. The operator may /Zoom to the buyer data base to obtain the appropriate value.
Name (Buyer ID)	String	30	This field is the user's name as shown in the Buyer file.
SITE ID (LOCATION)	String	6	This field is used to designate the actual location or site of where the item is. The user may zoom to the Location screen to pick an appropriate code. NOTE : This data must be previously entered with screen Material Location Maintenance (imlocns).
Site Name	String	46	Name of the Site whose code is displayed.
PHONE NUMBER (Buyer)	String	18	Telephone number of the Buyer described by the displayed code.

Remember to press <ENTER> after each field.

4.3.4.2.9.6 Hardware/Software Codes

Hardware/Software Codes provides for the maintenance of the codes used to identify maintenance cost source information in the inventory and logistics processes.

4.3.4.2.9.6.1 Hardware/Software Codes Screens

This screen provides for the maintenance of the codes used to identify maintenance cost source information in the inventory and logistics processes.

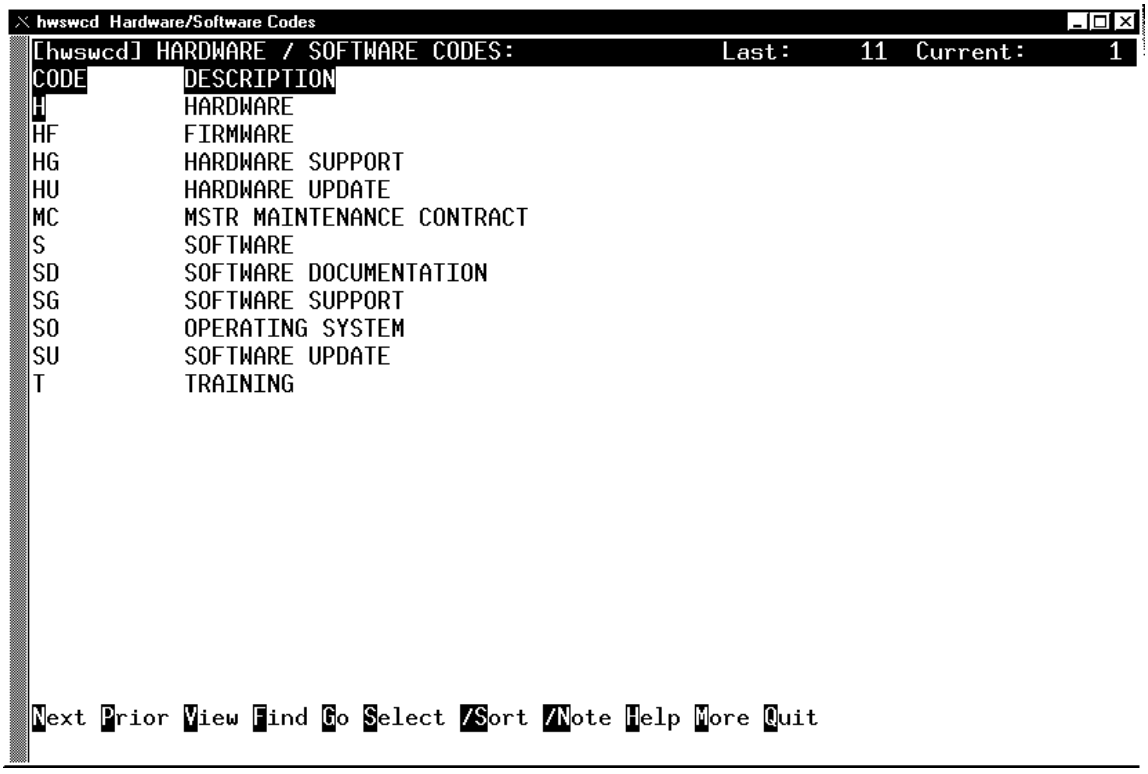


Figure 4.3.4-70. Hardware/Software Codes CHUI

Bottom Line Commands:

- /**A**dd Add (store) the displayed record (data on the screen) to the data base.
- /**C**opy Copy the ìtaggedî displayed fields (data on the screen) to other fields.
- /**D**elete Delete the displayed record (data on the screen) from the data base.
- /**I**nsert Insert (store) the displayed record (data on the screen) in sequence to the data base
- /**M**odify Modify (store) the displayed record (data on the screen) in the data base.
- /**N**ote Add a note to the displayed record (data on the screen).
- /**S**ort Sort on the selected field of the displayed record (data on the screen).
- **V**iew Toggles between ìformî or record display and ìtableî or list display.

Table 4.3.4-69. Hardware/Software Codes Field Descriptions

Field Name	Data Type	Size	Description
CODE (Hardware/Software)	String	10	The user will enter any desired (Hardware/Software) code in this field.
DESCRIPTION (Hardware/Software)	String	30	Enter the description of the (Hardware/Software) code.

Remember to press <ENTER> after each field.

4.3.4.2.9.7 Status Code Manager

Status Code Manager provides for the maintenance of the status codes used to track property and events in the inventory and logistics processes.

4.3.4.2.9.7.1 Status Code Manager Screen

This screen provides for the maintenance of the status codes used to track property and events in the inventory and logistics processes.

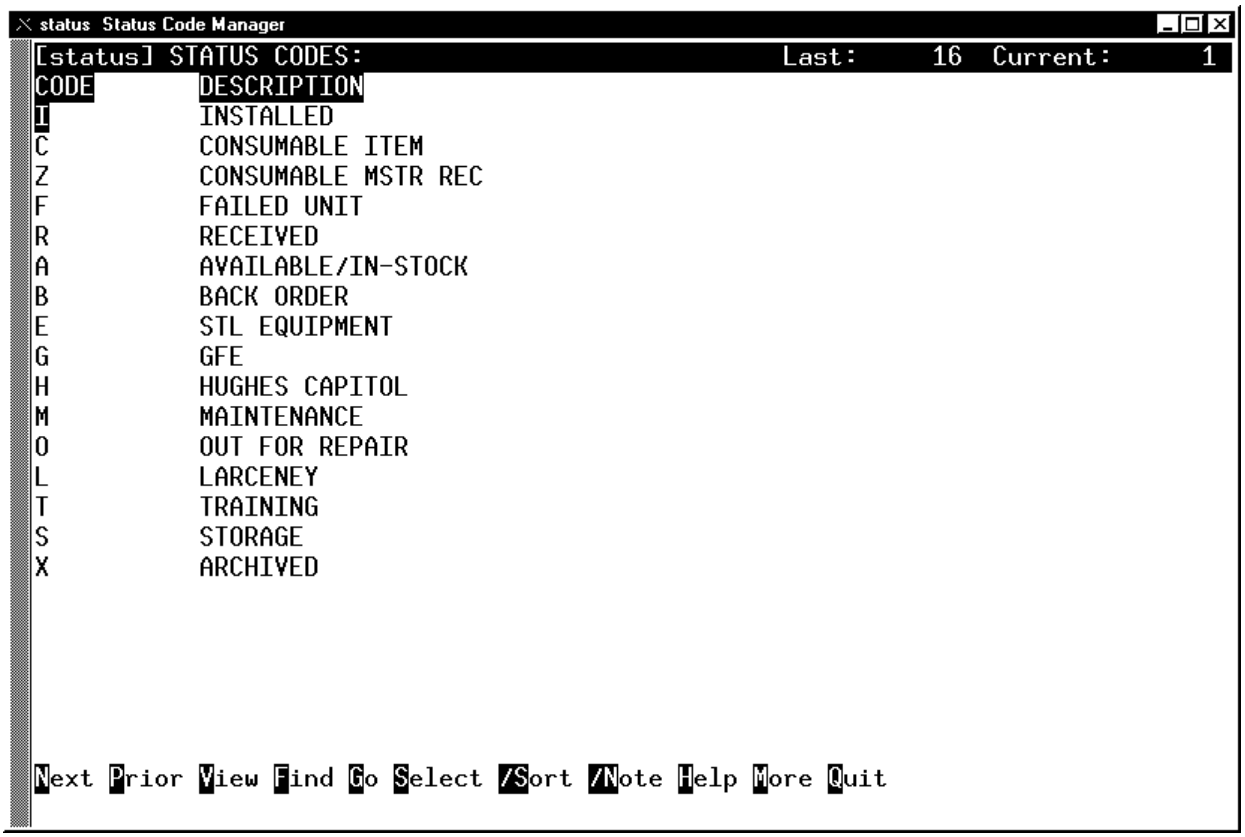


Figure 4.3.4-71. Status Code Manager CHUI

Bottom Line Commands:

- /**A**dd Add (store) the displayed record (data on the screen) to the data base.
- /**C**opy Copy the ìtaggedî displayed fields (data on the screen) to other fields.
- /**D**elete Delete the displayed record (data on the screen) from the data base.
- /**I**nsert Insert (store) the displayed record (data on the screen) in sequence to the data base
- /**M**odify Modify (store) the displayed record (data on the screen) in the data base.
- /**N**ote Add a note to the displayed record (data on the screen).
- /**S**ort Sort on the selected field of the displayed record (data on the screen).
- **V**iew Toggles between ìformî or record display and ìtableî or list display.

Table 4.3.4-70. Status Code Manager Field Descriptions

Field Name	Data Type	Size	Description
CODE (Status codes)	String	4	The user will enter any desired (Status codes) code in this field.
DESCRIPTION (Status codes)	String	30	Enter the description of the (Status codes) code.

Remember to press <ENTER> after each field.

4.3.4.2.9.8 Report Number

Report Number provides for the maintenance of the Report Number conversion used to assign numbers to reports.

4.3.4.2.9.8.1 Report Number Screens

This screen provides for the maintenance of the Report Number conversion used to assign numbers to reports.

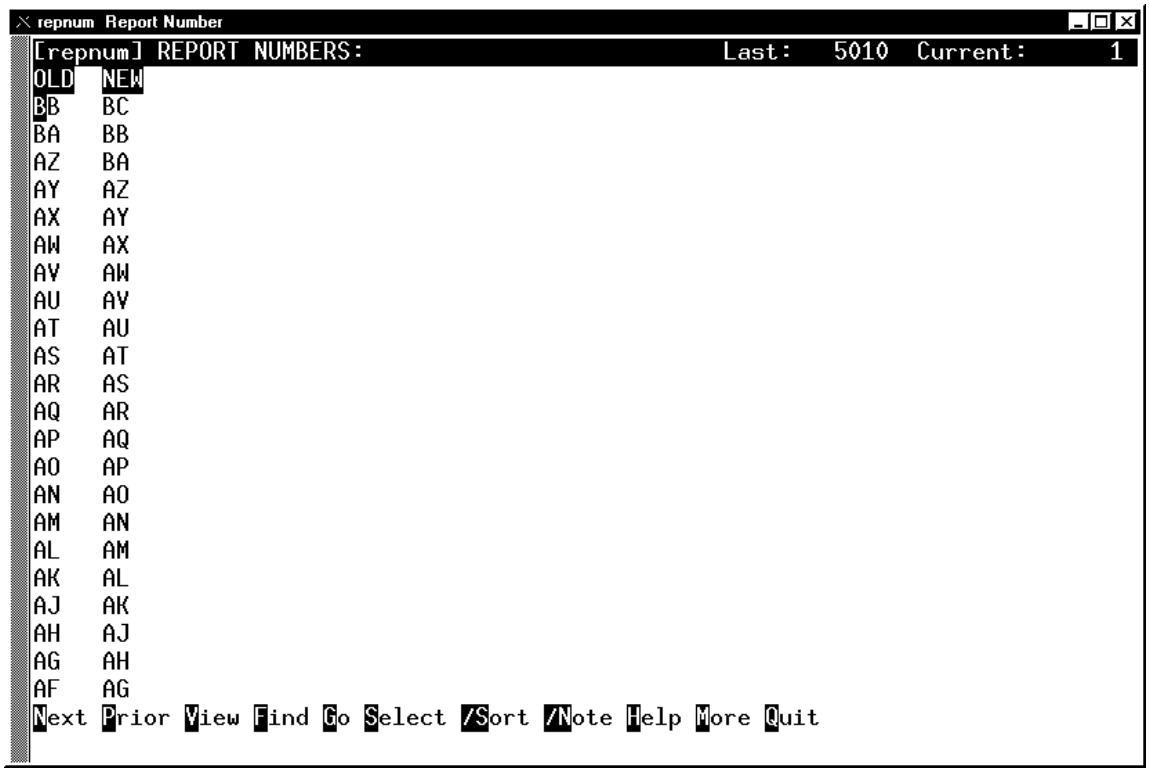


Figure 4.3.4-72. Report Number CHUI

Bottom Line Commands:

- /**A**dd Add (store) the displayed record (data on the screen) to the data base.
- /**C**opy Copy the "tagged" displayed fields (data on the screen) to other fields.
- /**D**elete Delete the displayed record (data on the screen) from the data base.
- /**I**nsert Insert (store) the displayed record (data on the screen) in sequence to the data base
- /**M**odify Modify (store) the displayed record (data on the screen) in the data base.
- /**N**ote Add a note to the displayed record (data on the screen).
- /**S**ort Sort on the selected field of the displayed record (data on the screen).
- **V**iew Toggles between "form" or record display and "table" or list display.

Table 4.3.4-71. Report Number Field Descriptions

Field Name	Data Type	Size	Description
OLD (Report numbers)	String	5	The user will enter OLD Report numbers.
NEW (Report numbers)	String	5	Enter the corresponding NEW Report numbers.

Remember to press <ENTER> after each field.

4.3.4.2.9.9 Export Inventory Data

Export Inventory Data provides the assignment of destinations for the transfer of a site's inventory data to another location.

4.3.4.2.9.9.1 Export Inventory Data Screens

This screen provides the assignment of destinations for the transfer of a site's inventory data to another location.

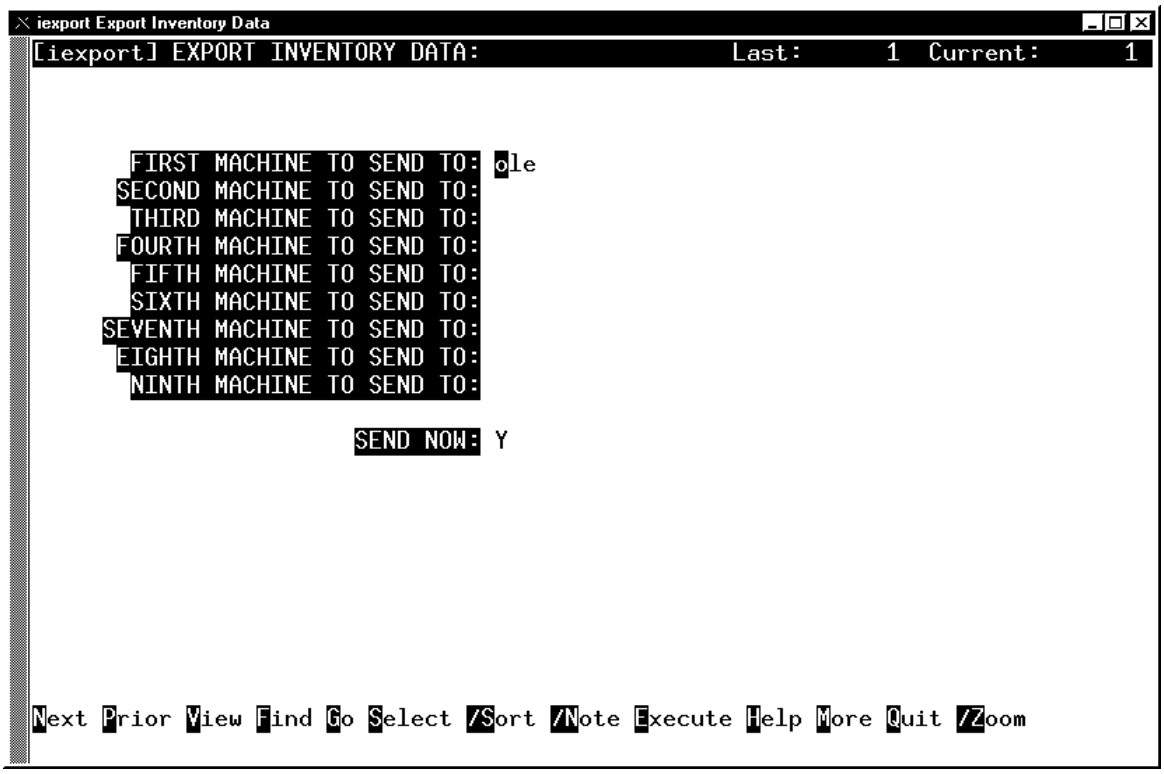


Figure 4.3.4-73. Export Inventory Data CHUI

Bottom Line Commands:

- /**A**dd Add (store) the displayed record (data on the screen) to the data base.
- /**C**opy Copy the "tagged" displayed fields (data on the screen) to other fields.
- /**D**elete Delete the displayed record (data on the screen) from the data base.
- /**I**nsert Insert (store) the displayed record (data on the screen) in sequence to the data base
- /**M**odify Modify (store) the displayed record (data on the screen) in the data base.
- /**N**ote Add a note to the displayed record (data on the screen).
- /**S**ort Sort on the selected field of the displayed record (data on the screen).
- /**Z**oom Display a list of all the values of the selected field in the data base.
- **V**iew Toggles between "form" or record display and "table" or list display.
- **E**xecute This command invokes the appropriate process and prints a report on the results.

Table 4.3.4-72. Export Inventory Data Field Descriptions

Field Name	Data Type	Size	Description
Nth MACHINE TO SEND TO	String	6	Enter Site Code of machine to receive Inventory Data.
SEND NOW	String	1	Flag to indicate subject is to be sent in response..

Remember to press <ENTER> after each field.

4.3.4.2.9.10 DAAC Export Inventory Data

DAAC Export Inventory Data provides for the transfer of Iinventory Data from the DAAC to e specific machine at the SMC.

4.3.4.2.9.10.1 DAAC Export Inventory Data Log Screens

This screen is provides the operator with the means to specify the destination machine for the DAAC's Iinventory Data at the SMC and whether to send the data immediately.

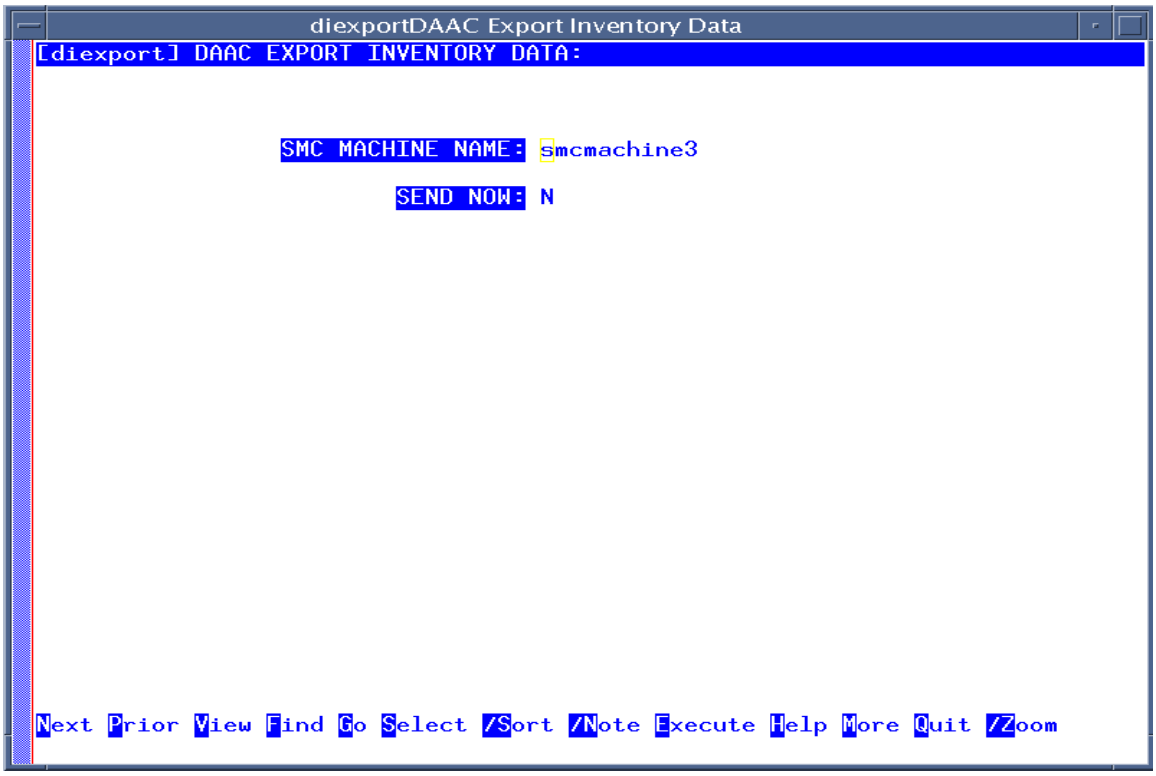


Figure 4.3.4-74. DAAC Export Inventory CHUI

Bottom Line Commands:

- /**N**ote Add a note to the displayed record (data on the screen).
- /**S**ort Sort on the selected field of the displayed record (data on the screen).
- **V**iew Toggles between "form" or record display and "table" or list display.

Table 4.3.4-73. DAAC Export Inventory Data Field Descriptions

Field Name	Data Type	Size	Description
SMC MACHINE NAME	String	6	Enter Site Code of machine to receive Inventory Data.
SEND NOW	String	1	Flag to indicate subject is to be sent in response..

Remember to press <ENTER> after each field.

4.3.4.2.9.11 Transaction Log

Transaction Log provides a review of the transactions applied to the .ILM database.

4.3.4.2.9.11.1 Transaction Log Screens

This screen is provides a review of the transactions applied to the .ILM database. This function may be used by ILMADM and XRPADM users only.

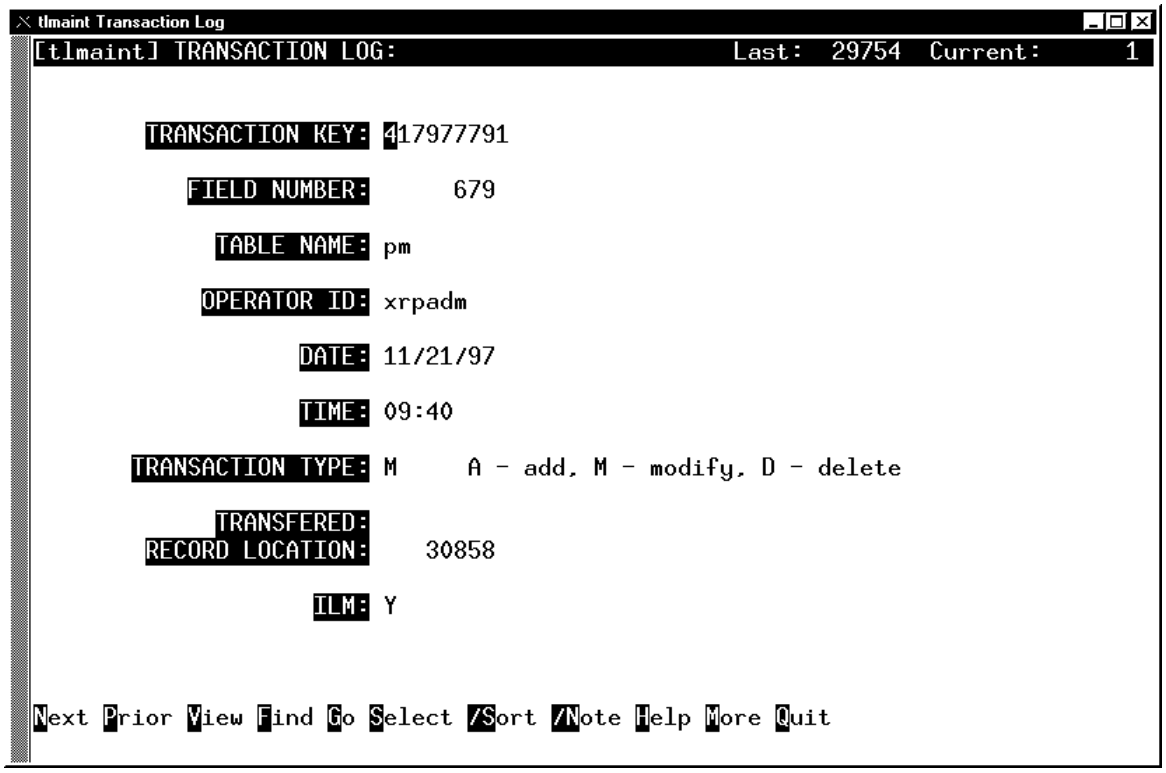


Figure 4.3.4-75. Transaction Log CHUI

Bottom Line Commands:

- /**N**ote Add a note to the displayed record (data on the screen).
- /**S**ort Sort on the selected field of the displayed record (data on the screen).
- **V**iew Toggles between “form” or record display and “table” or list display.

Table 4.3.4-74. Transaction Log Field Descriptions

Field Name	Data Type	Size	Description
TRANSACTION KEY	Number	8	The transaction log key field. This key is assigned by the program.
FIELD NUMBER	Number	8	The field number of the transaction field to query.
TABLE NAME	String	20	The table name of the database table containing the field to query.
OPERATOR ID	String	8	This field is the login ID of the user who added this item to the data base and is not modifiable by the user.
DATE	Date	2	Date for the query; e.g. transaction date.
Time	Time	2	Time for the query; e.g. transaction time
TRANSACTION TYPE	Number	2	Code for the TYPE of transaction to query: A = Add, M = Modify, D = Delete.
TRANSFERRED RECORD LOCATION	String	20	This field is used to designate the actual location or site of where the item is. The user may zoom to the Location screen to pick an appropriate code. NOTE : This data must be previously entered with screen Material Location Maintenance (imlocns).
ILM	String	1	Flag Y/N indicating ILM vs Baseline Manager.

Remember to press <ENTER> after each field.

4.3.4.2.9.12 Transaction Archive

Transaction Archive provides the assignment of a destination for archived Transaction Logs with the archiving action

4.3.4.2.9.12.1 Transaction Archive

This screen provides the assignment of a destination for archived Transaction Logs with the archiving action. This function must be performed regularly to prevent the Transaction Log file from wrapping.

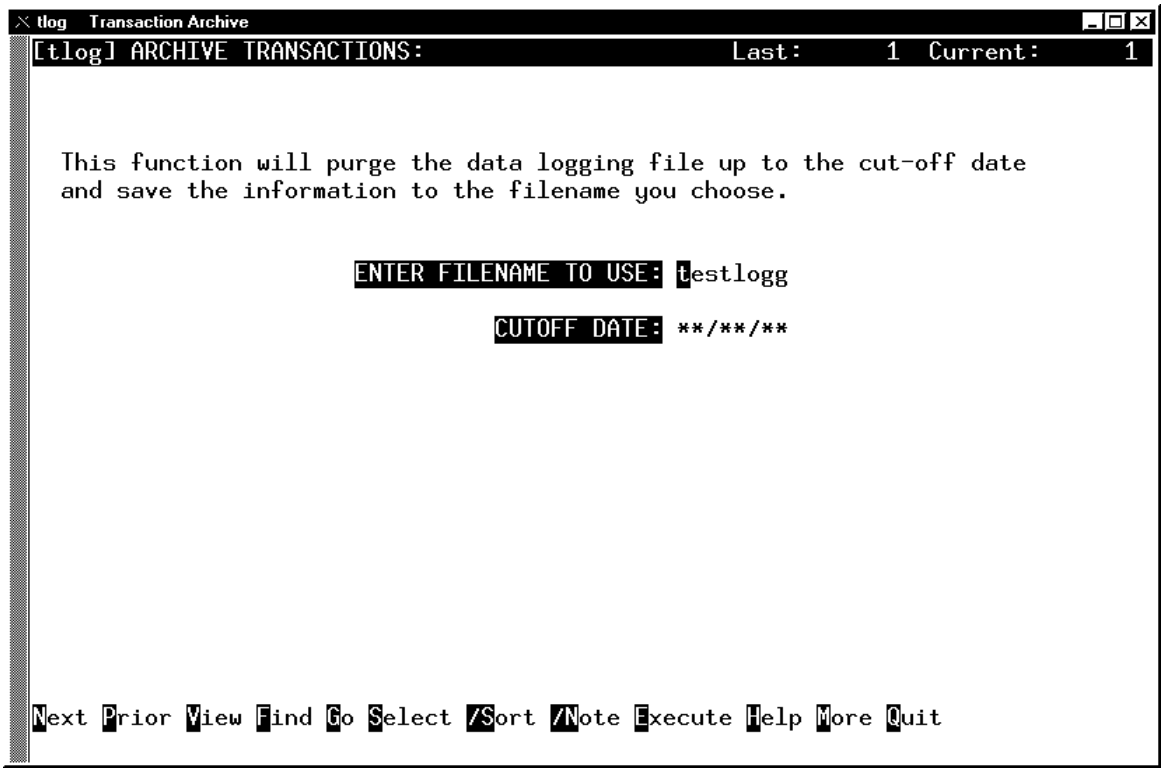


Figure 4.3.4-76. Transaction Archive CHUI

Bottom Line Commands:

- /**A**dd Add (store) the displayed record (data on the screen) to the data base.
- /**C**opy Copy the "tagged" displayed fields (data on the screen) to other fields.
- /**D**elete Delete the displayed record (data on the screen) from the data base.
- /**I**nsert Insert (store) the displayed record (data on the screen) in sequence to the data base
- /**M**odify Modify (store) the displayed record (data on the screen) in the data base.
- /**N**ote Add a note to the displayed record (data on the screen).
- /**S**ort Sort on the selected field of the displayed record (data on the screen).
- **V**iew Toggles between "form" or record display and "table" or list display.
- **E**xecute This command invokes the appropriate process and prints a report on the results.

Table 4.3.4-75. Transaction Archive Field Descriptions

Field Name	Data Type	Size	Description
ENTER FILENAME TO USE	String	20	Enter filename to archive the transaction log to.
CUTOFF DATE (Transaction archive)	String	8	Enter last date for transaction records to be archived.

Remember to press <ENTER> after each field.

4.3.4.2.9.13 OEM Part Numbers

OEM Part Numbers provides for the maintenance of OEM Part Numbers information used in the inventory and logistics processes

4.3.4.2.9.13.1 OEM Part Numbers

This screen provides for the maintenance of OEM Part Numbers information used in the inventory and logistics processes.

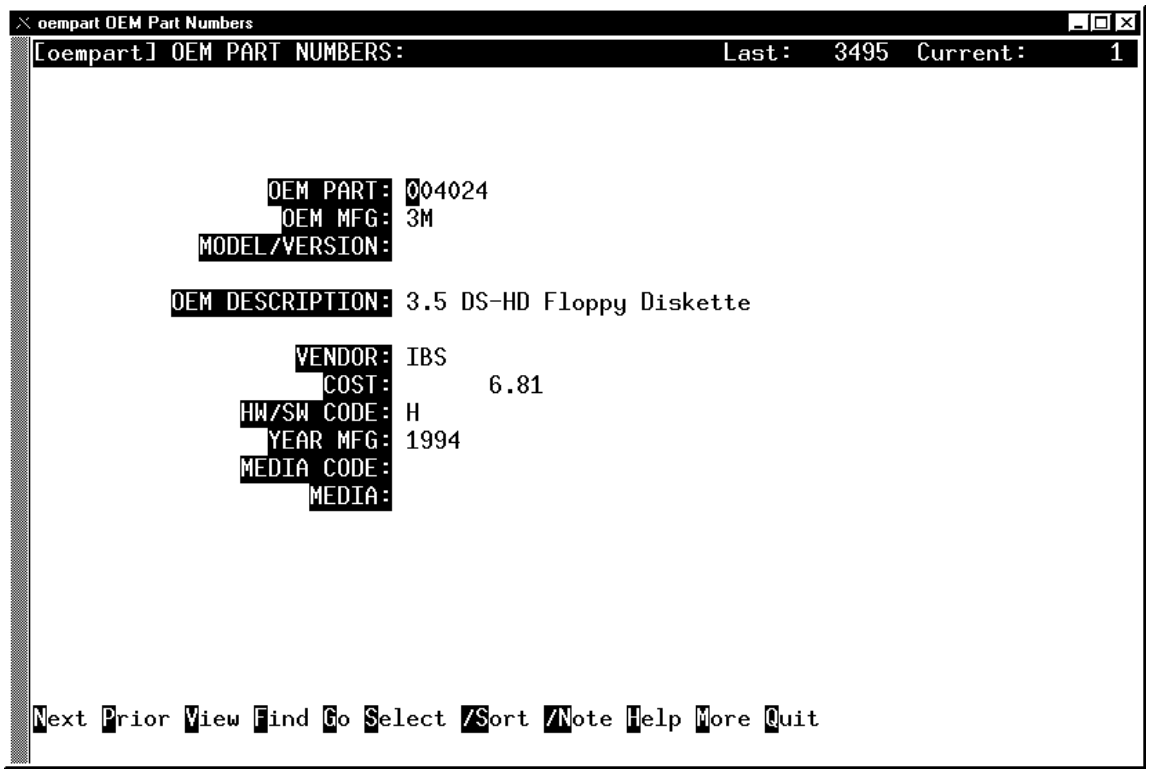


Figure 4.3.4-77. OEM Part Numbers Screen

Bottom Line Commands:

- /**A**dd Add (store) the displayed record (data on the screen) to the data base.
- /**C**opy Copy the "tagged" displayed fields (data on the screen) to other fields.
- /**D**elete Delete the displayed record (data on the screen) from the data base.
- /**I**nsert Insert (store) the displayed record (data on the screen) in sequence to the data base
- /**M**odify Modify (store) the displayed record (data on the screen) in the data base.
- /**N**ote Add a note to the displayed record (data on the screen).
- /**S**ort Sort on the selected field of the displayed record (data on the screen).
- **V**iew Toggles between "form" or record display and "table" or list display.

Table 4.3.4-76. OEM Part Numbers Field Descriptions

Field Name	Data Type	Size	Description
OEM PART (Part numbers)	String	34	This is the manufacturer's part number of the item being cataloged
OEM MFG (Part numbers)	String	40	This is the name of the manufacturer.
MODEL/ VERSION (Part numbers)	String	24	This field is used to enter the actual Model and or Version of the item.
OEM DESCRIPTION (Part numbers)	String	30	This field reflects the description of the OEM PART NUMBER entered in the field above.
VENDOR (Part numbers)	String	6	Enter the vendor ID. The operator may /Zoom to the vendor data base to choose the appropriate vendor code.
COST	Floating	9.2	This field is the purchase cost of the item.
HD/SW CODE	String	10	This field provides the ability for the user to enter a code designating the type of item. The user may zoom to the Hardware/Software data file. NOTE: This data must be previously entered in screen Hardware/Software Codes (hwswcd).
YEAR MFG	String	4	This field is used to enter the actual 4-digit year the item was manufactured. This field defaults to the current year.
MEDIA CODE	String	1	Code for Media identification
MEDIA	String	2	Media material

Remember to press <ENTER> after each field.

4.3.4.2.9.14 Shipment Number Manager

Shipment Number Manager provides for the maintenance of the Shipment Number conversion used to assign numbers to shipments.

4.3.4.2.9.14.1 Shipment Number Manager Screens

This screen provides for the maintenance of the Shipment Number conversion used to assign numbers to shipments.

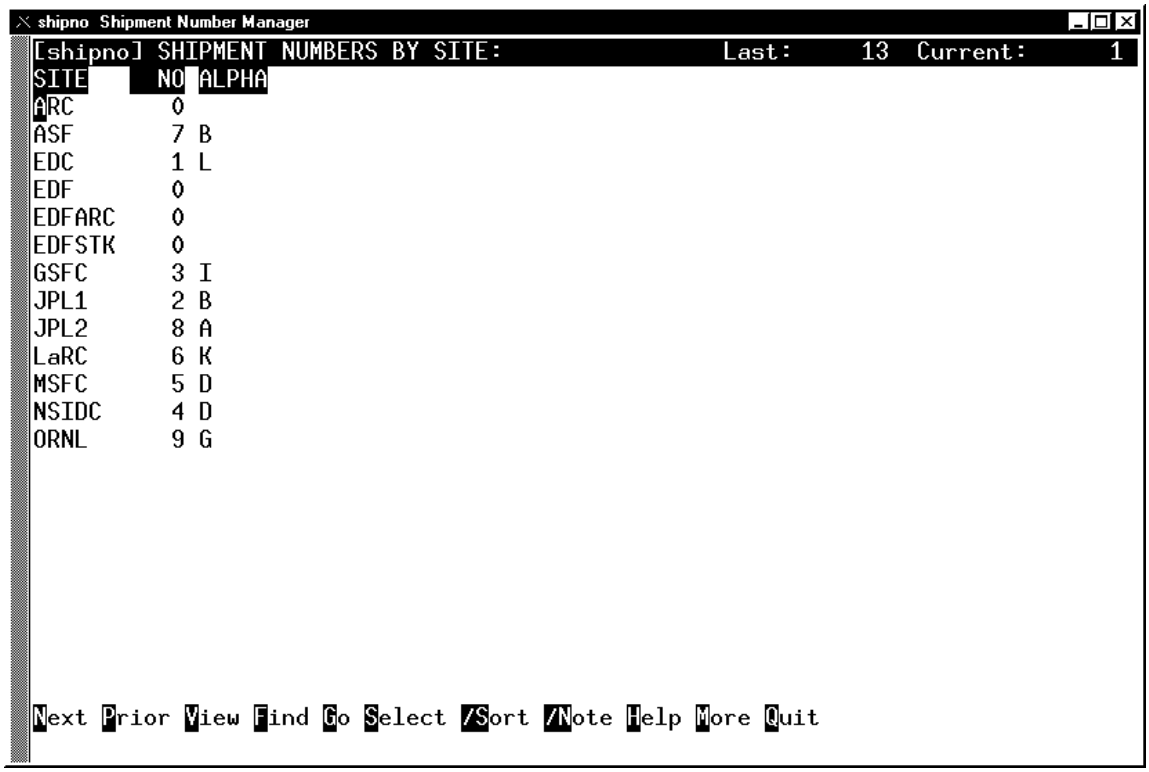


Figure 4.3.4-78. Shipment Number Manager CHUI

Bottom Line Commands:

- /**A**dd Add (store) the displayed record (data on the screen) to the data base.
- /**C**opy Copy the "tagged" displayed fields (data on the screen) to other fields.
- /**D**elete Delete the displayed record (data on the screen) from the data base.
- /**I**nsert Insert (store) the displayed record (data on the screen) in sequence to the data base
- /**M**odify Modify (store) the displayed record (data on the screen) in the data base.

/Note Add a note to the displayed record (data on the screen).

/Sort Sort on the selected field of the displayed record (data on the screen).

View Toggles between “form” or record display and “table” or list display.

Table 4.3.4-77. Shipment Number Manager Field Descriptions

Field Name	Data Type	Size	Description
SITE (LOCATION)	String	6	This field is used to designate the actual location or site of where the item is. The user may zoom to the Location screen to pick an appropriate code. NOTE : This data must be previously entered with screen Material Location Maintenance (imlocns).
NO (Shipment Numbers)	Number	4	Site number used in shipment tracking.
ALPHA (Shipment Numbers)	String	2	Alpha code corresponding to site number used in shipment tracking.

Remember to press <ENTER> after each field.

4.3.4.2.9.15 Carriers

Carriers provides for the maintenance of Carrier information used in the inventory and logistics processes.

4.3.4.2.9.15.1 Carriers Screens

This screen provides for the maintenance of Carrier information used in the inventory and logistics processes.

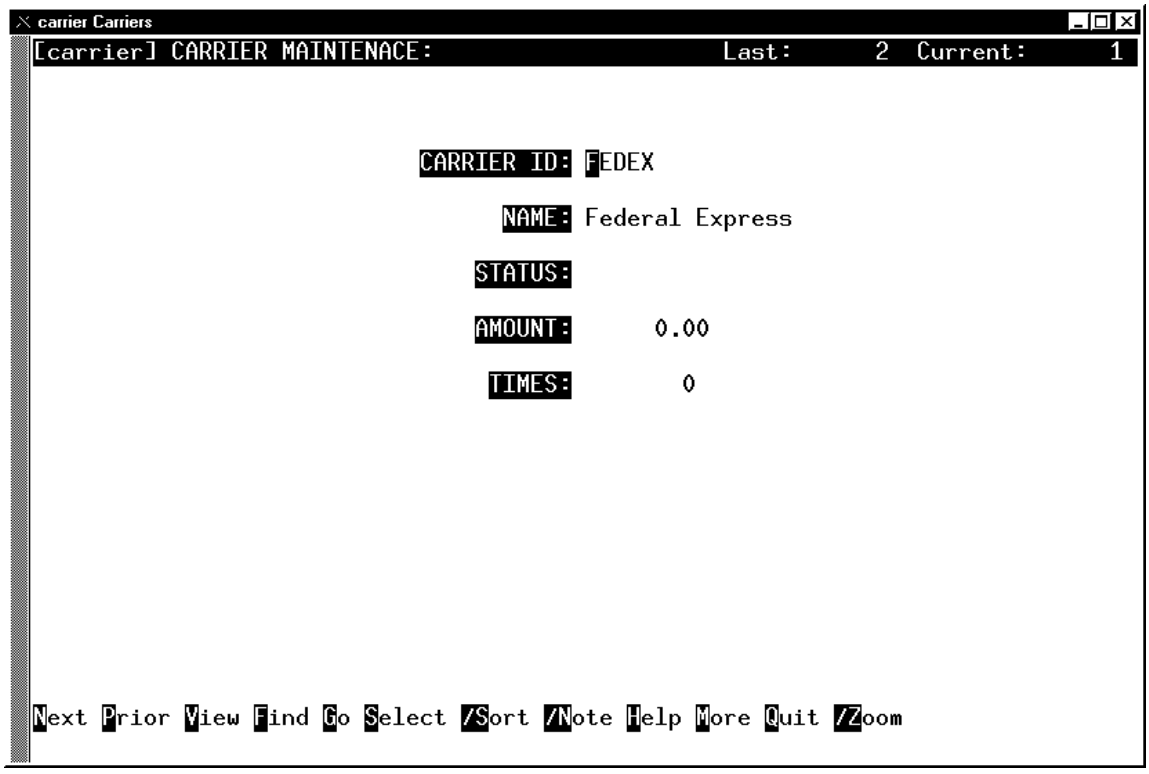


Figure 4.3.4-79. Carriers CHUI

Bottom Line Commands:

- /**A**dd Add (store) the displayed record (data on the screen) to the data base.
- /**C**opy Copy the "tagged" displayed fields (data on the screen) to other fields.
- /**D**elete Delete the displayed record (data on the screen) from the data base.
- /**I**nsert Insert (store) the displayed record (data on the screen) in sequence to the data base
- /**M**odify Modify (store) the displayed record (data on the screen) in the data base.
- /**N**ote Add a note to the displayed record (data on the screen).
- /**S**ort Sort on the selected field of the displayed record (data on the screen).
- /**Z**oom Display a list of all the values of the selected field in the data base.
- **V**iew Toggles between "form" or record display and "table" or list display.

Table 4.3.4-78. Carriers Field Descriptions

Field Name	Data Type	Size	Description
CARRIER ID	String	6	Enter the code to be used for the carrier
NAME (Carrier)	String	30	Enter the name of the carrier corresponding to the displayed code.
STATUS (Carrier)	String	10	Status of the carrier.
AMOUNT (Carrier)	A	7	Amount of carrier services used.
TIMES (Carrier)	String	8	Number of times carrier has been used.

Remember to press <ENTER> after each field.

4.3.4.2.9.15 ILM Import Records

ILM Import Records provides for the movement of a file from the drop directory to the application directory, unTar it, and load the data base for all ILM related files.

4.3.4.2.9.15.1 ILM Import Records Screens

This screen provides for the movement of a file from the drop directory to the application directory, unTar it, and load the data base for all ILM related files.

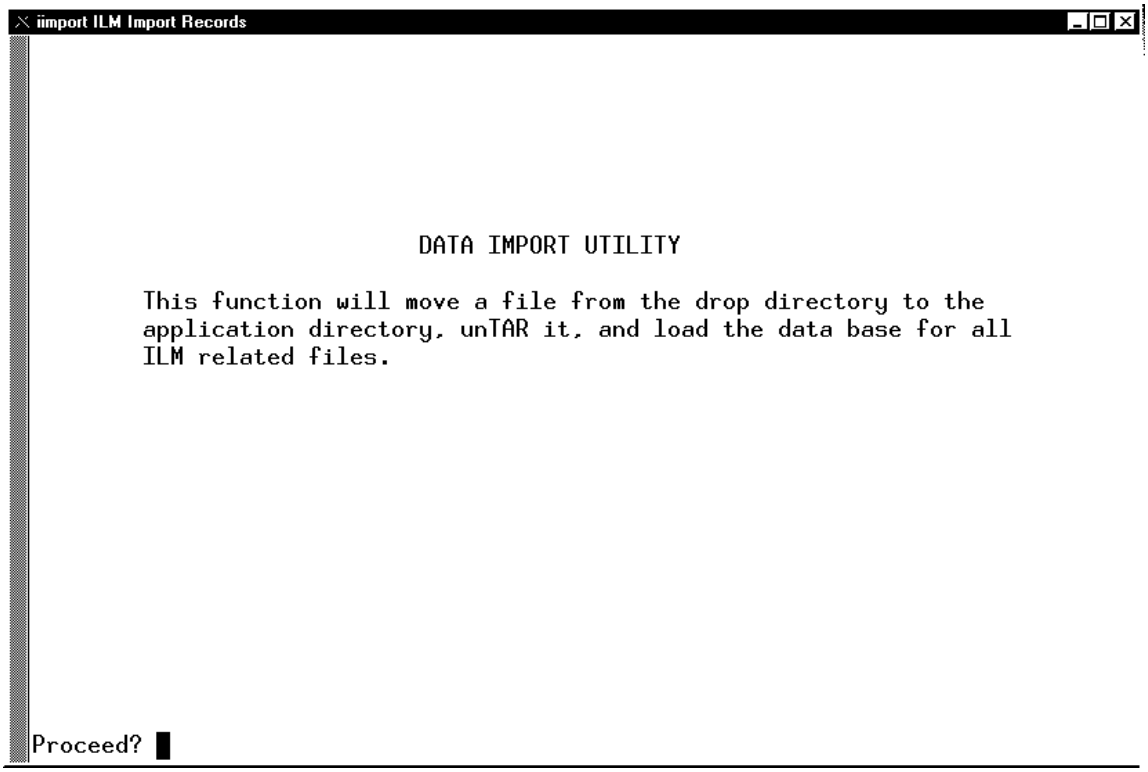


Figure 4.3.4-80. ILM Import Records CHUI

Bottom Line Commands:

- **P**roceed? Y = continue with the process, N = quit. The default is N.

Remember to press <ENTER> after each field.

4.3.4.2.9.17 Sales / Purchase Terms: Maintenance

Sales / Purchase Terms: Maintenance provides for the maintenance of the Sales / Purchase Terms information used in the inventory and logistics processes.

4.3.4.2.9.17.1 Sales / Purchase Terms: Maintenance Screens

This screen provides for the maintenance of the Sales / Purchase Terms information used in the inventory and logistics processes.

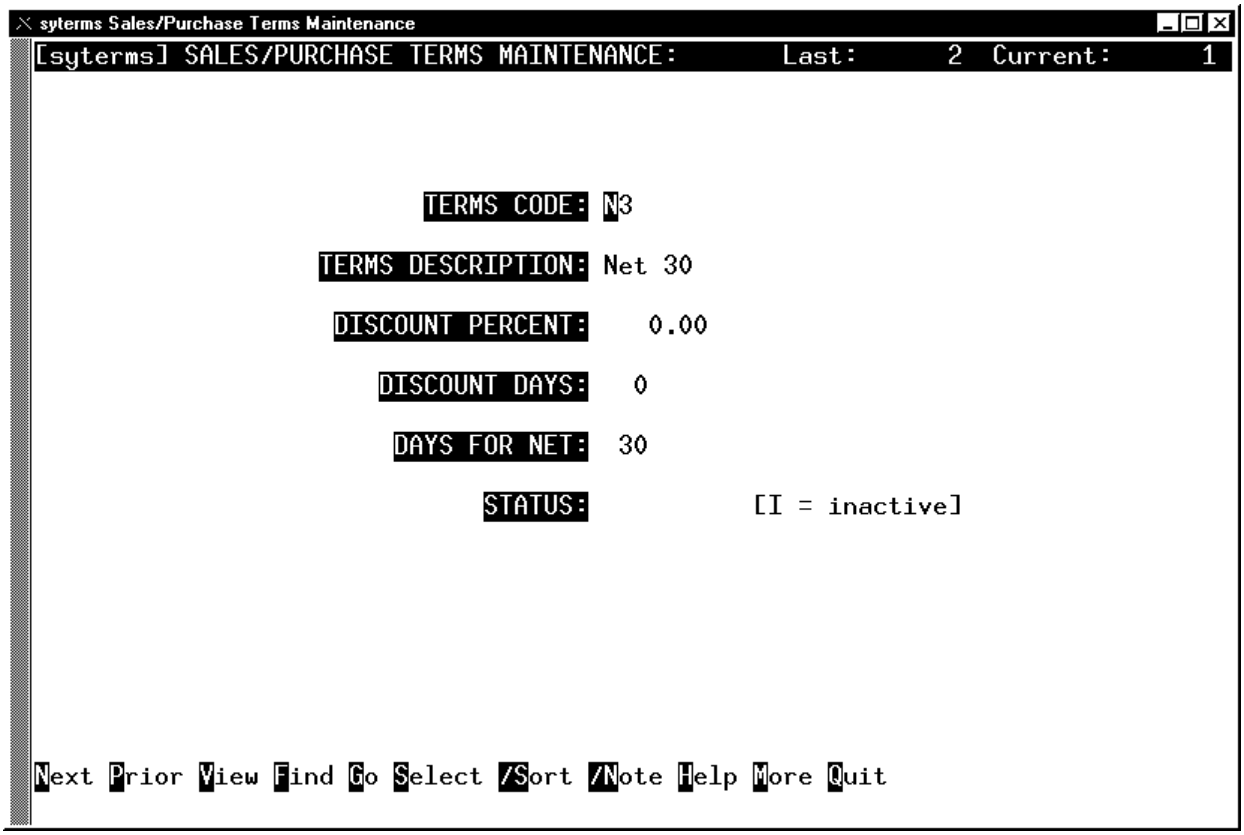


Figure 4.3.4-81. Sales/Purchase Terms: Maintenance CHUI

Bottom Line Commands:

- /**A**dd Add (store) the displayed record (data on the screen) to the data base.

- /**C**opy Copy the “tagged” displayed fields (data on the screen) to other fields.
- /**D**elete Delete the displayed record (data on the screen) from the data base.
- /**I**nsert Insert (store) the displayed record (data on the screen) in sequence to the data base
- /**M**odify Modify (store) the displayed record (data on the screen) in the data base.
- /**N**ote Add a note to the displayed record (data on the screen).
- /**S**ort Sort on the selected field of the displayed record (data on the screen).
- **V**iew Toggles between “form” or record display and “table” or list display.

Table 4.3.4-79. Sales/Purchase Terms: Maintenance Field Descriptions

Field Name	Data Type	Size	Description
TERMS CODE	String	2	Enter the code to be used for this TERMS set.
TERMS DESCRIPTION	String	20	Description for this TERMS CODE.
DISCOUNT PERCENT	String	3	Discount percent if available.
DISCOUNT DAYS	String	3	Days to pay invoice to get discount.
DAYS FOR NET	Number	3	Days to pay before getting penalized for late payment.
STATUS	String	1	Status code for TERMS CODE

Remember to press <ENTER> after each field.

4.3.4.2.9.18 Reason Code Maintenance

Sales / Purchase Terms: Maintenance provides for the maintenance of the Sales / Purchase Terms information used in the inventory and logistics processes.

4.3.4.2.9.18.1 Reason Code Maintenance Screens

This screen provides for the maintenance of the Sales / Purchase Terms information used in the inventory and logistics processes.

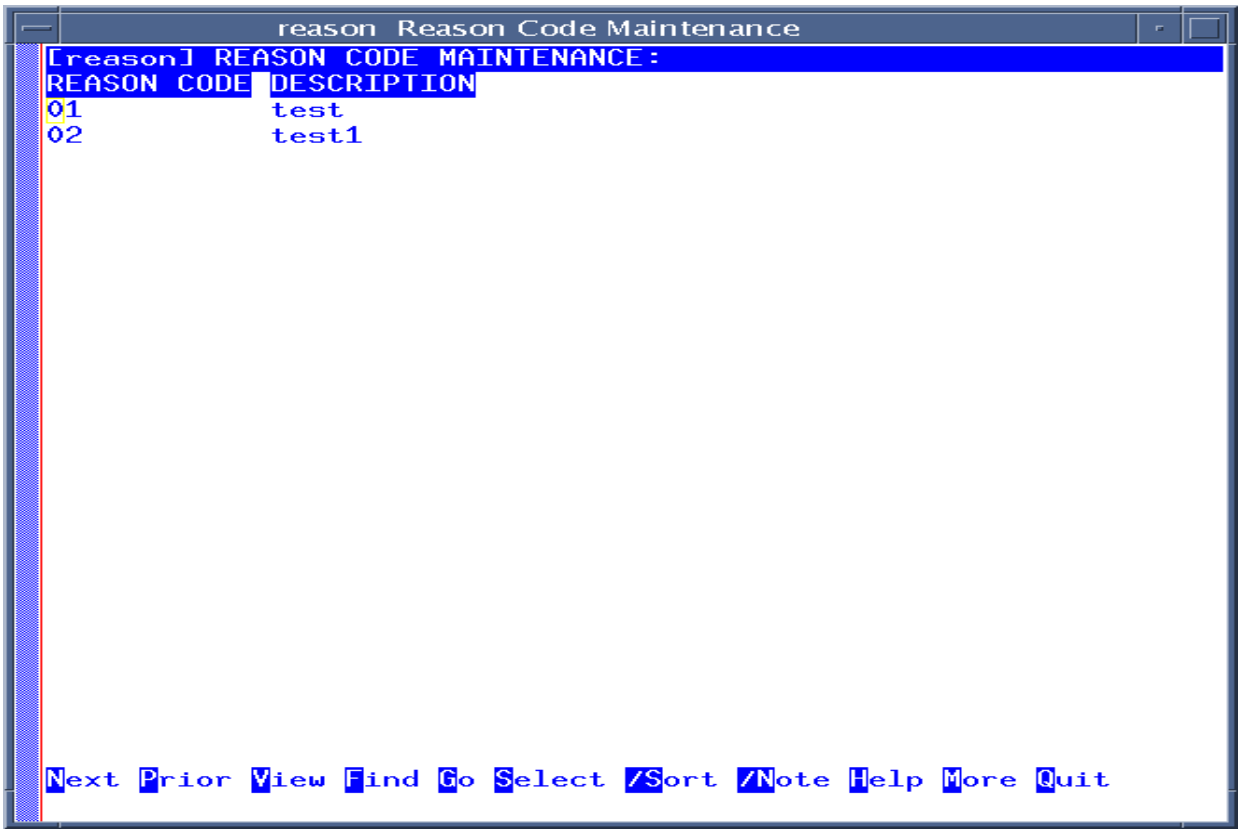


Figure 4.3.4-82. Reason Code Maintenance CHUI

Bottom Line Commands:

- /**N**ote Add a note to the displayed record (data on the screen).
- /**S**ort Sort on the selected field of the displayed record (data on the screen).
- **V**iew Toggles between "form" or record display and "table" or list display.
- /**A**dd Add (store) the displayed record (data on the screen) to the data base.
- /**C**opy Copy the "tagged" displayed fields (data on the screen) to other fields.
- /**D**elete Delete the displayed record (data on the screen) from the data base.
- /**I**nsert Insert (store) the displayed record (data on the screen) in sequence to the data base
- /**M**odify Modify (store) the displayed record (data on the screen) in the data base.
- /**N**ote Add a note to the displayed record (data on the screen).
- /**S**ort Sort on the selected field of the displayed record (data on the screen).

- /**Z**oom Display a list of all the values of the selected field in the data base.
- **V**iew Toggles between “form” or record display and “table” or list display.

Table 4.3.4-80. Reason Code Maintenance Field Descriptions

Field Name	Data Type	Size	Description
REASON CODE	String	2	Enter the code to be used for this REASON
DESCRIPTION	String	20	Description for this REASON CODE.

Remember to press <ENTER> after each field.

4.3.4.2.9.19 Site Codes for Scanned Data

This screen allows the user to associate a numeric code with a DAAC site and building. This code is used by the system when interpreting scanned data.

4.3.4.2.9.19.1 Site Codes for Scanned Data Screen

Figure 4.3.4-83a shows the Site Codes for Scanned Data screen.

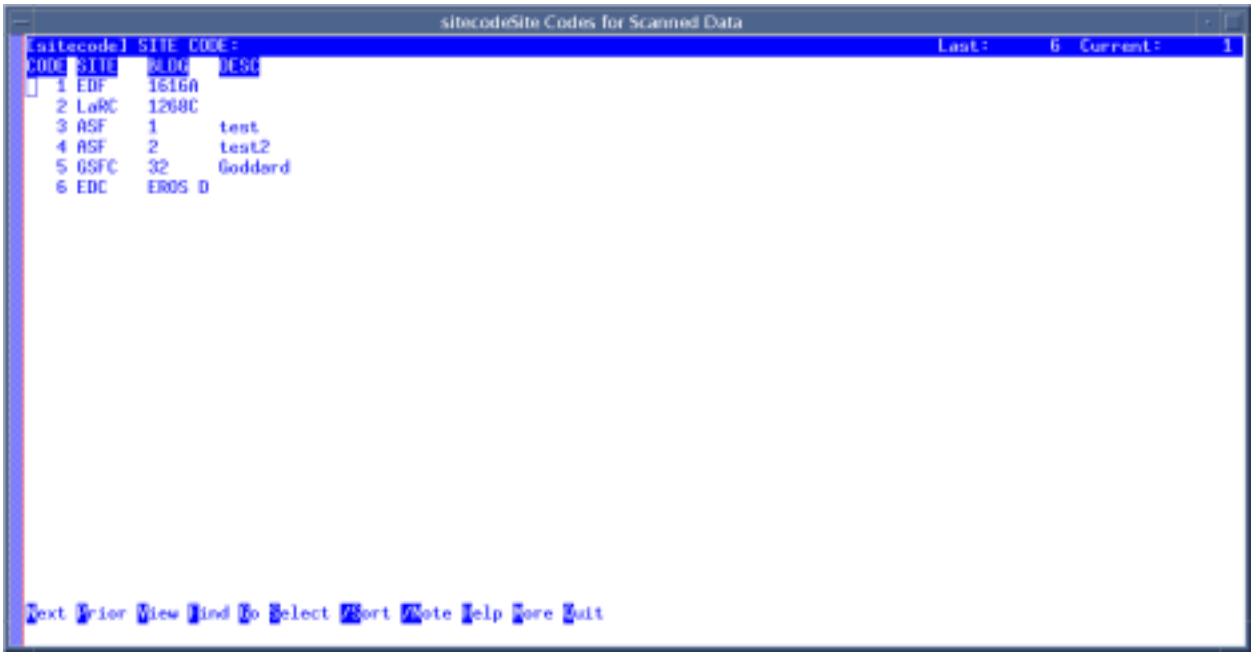


Figure 4.3.4-83a. Site Codes for Scanned Data CHUI

Bottom Line Commands:

- /**S**ort Sort on the selected field of the displayed record (data on the screen).

- **V**iew Toggles between “form” or record display and “table” or list display.
- /**N**ote Add a note to the displayed record (data on the screen).

Table 4.3.4-81. Site Codes for Scanned Data Field Descriptions

Field Name	Data Type	Size	Description
CODE	Numeric	4	Code assigned to a Site and Building
SITE	String	6	The DAAC site identifier
BUILDING	String	6	The building number at the site
DESC	String	40	Description of Site/Bldg combination.

4.3.4.2.9.20 Scanned Data

This screen provides a view of the data provided by the bar code scanner.

4.3.4.2.9.20.1 Scanned Data Screen

Figure 4.3.4-83b shows the Scanned Data screen.

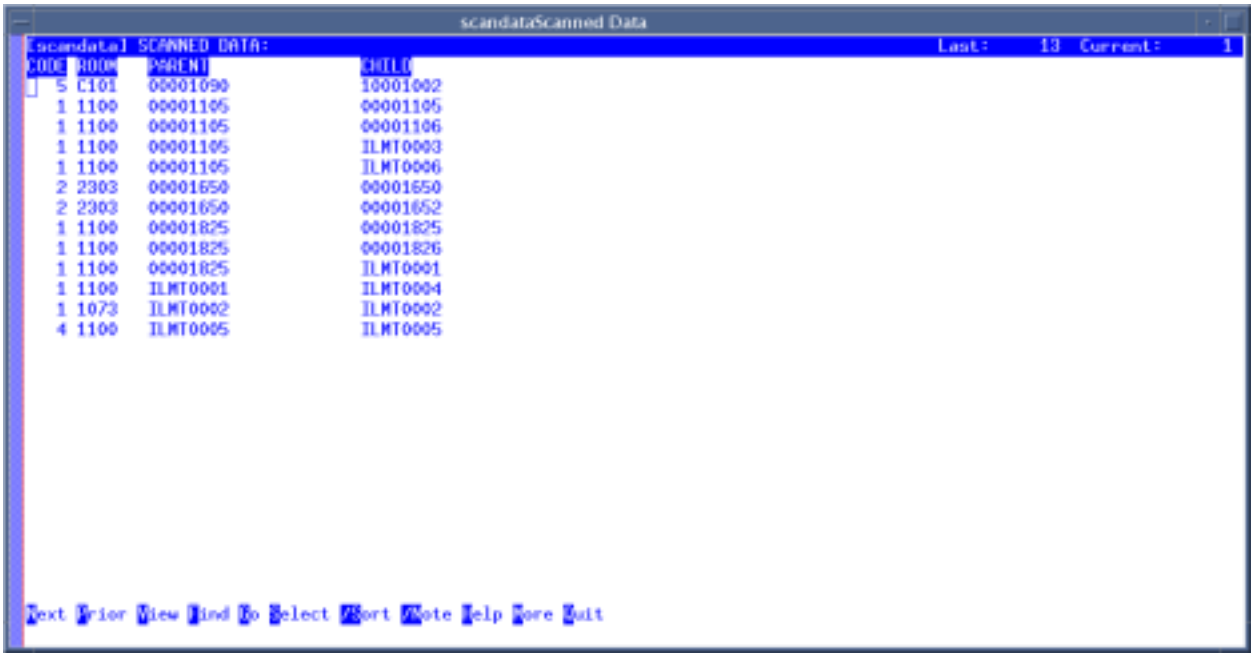


Figure 4.3.4-83b. Scanned Data CHUI

Bottom Line Commands:

- /**N**ote Add a note to the displayed record (data on the screen).
- /**S**ort Sort on the selected field of the displayed record (data on the screen).
- **V**iew Toggles between “form” or record display and “table” or list display.
- /**N**ote Add a note to the displayed record (data on the screen).

Table 4.3.4-82. Scanned Data Field Descriptions

Field Name	Data Type	Size	Description
CODE	Numeric	4	Code assigned to a Site and Building
ROOM	String	4	Scanned room number
PARENT	String	20	Scanned Parent EIN
CHILD	String	20	Scanned Child EIN

4.3.4.2.9.21 Process Scanned Data

This screen reports discrepancies between the ILM database and scanned data. It update the ILMdatabase to match scanned data.

4.3.4.2.9.21.1 Process Scanned Data Screen

Figure 4.3.4-83c shows the Process Scanned Data screen.

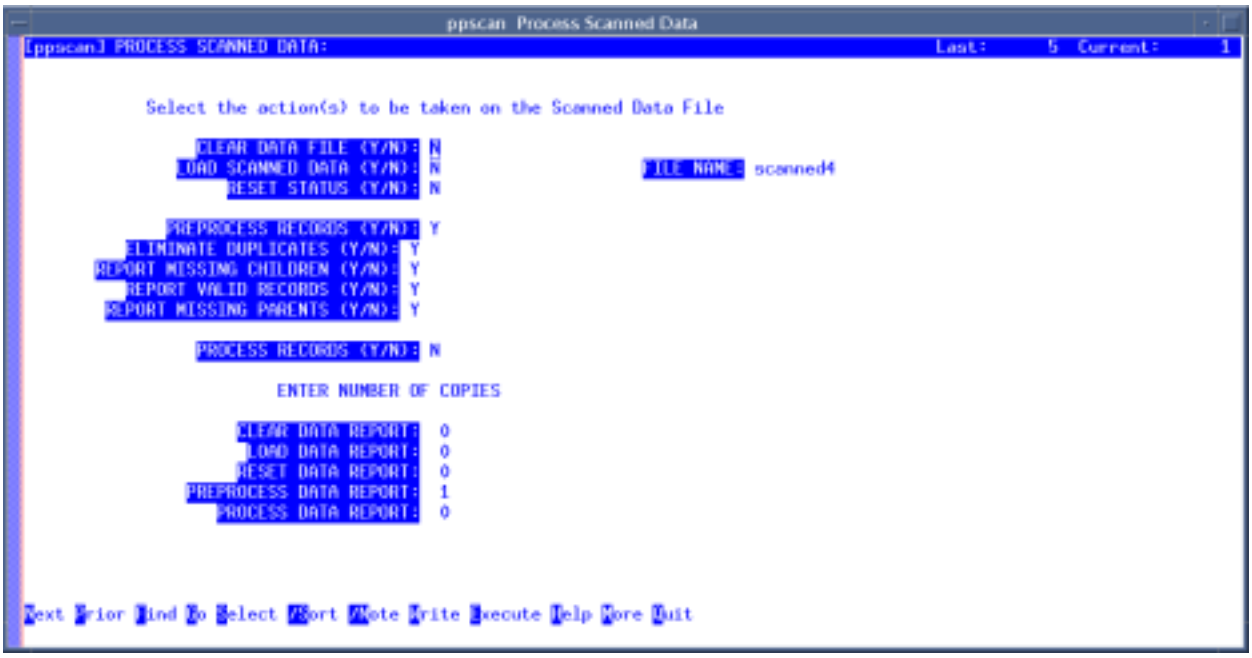


Figure 4.3.4-83c. Process Scanned Data CHUI

Bottom Line Commands:

- /**N**ote Add a note to the displayed record (data on the screen).
- /**S**ort Sort on the selected field of the displayed record (data on the screen).
- **V**iew Toggles between "form" or record display and "table" or list display.

Table 4.3.4-83. Process Scanned Data Field Descriptions

Field Name	Data Type	Size	Description
CLEAR DATA FILE (Y/N)	Y/N	1	To clear existing Scanned Data file
LOAD SCANNED DATA (Y/N)	Y/N	1	To load a Scanned Data file
FILE NAME	String	40	Name of the file to be imported
RESET STATUS (Y/N)	Y/N	1	Set to Y before preprocessing
PRPROCESS RECORDS (Y/N)	Y/N	1	To compare Scanned Data to existing database.
ELIMINATE DUPLICATES (Y/N)	Y/N	1	To eliminate duplicate records from Scanned Data.
REPORT MISSING CHILDREN (Y/N)	Y/N	1	To report component items not found by the scanner.
REPORT VALID RECORDS (Y/N)	Y/N	1	To report valid records in the Scanned Data file.
REPORT MISSING PARENTS (Y/N)	Y/N	1	To report "top-level" items not found by the scanner.
PROCESS RECORDS (Y/N)	Y/N	1	To update location information in the database.
CLEAR DATA REPORT	Numeric	2	To report results of "CLEAR DATA FILE"
LOAD DATA REPORT	Numeric	2	To report results of "LOAD DATA FILE"
RESET DATA REPORT FILE	Numeric	2	To report results of "RESET DATA FILE".
PREPROCESS DATA REPORT	Numeric	2	To report discrepancies discovered by "PREPROCESS RECORDS"
PROCESS DATA REPORT	Numeric	2	To report updates made to the database resulting from "PROCESS RECORDS"

4.3.4.3 Required Operating Environment

For all COTS packages, appropriate information on operating environments, tunable parameters, environment variables, and a list of vendor documentation can be found in a CM controlled document for each product. To find the documentation for ILM,refer to the ECS Baseline Information System web page, URL http://cmdm.east.hitc.com/.

For information on the operating environment, tunable parameters and environment variables of ILM refer to the 920-TDx-013 “Custom Code Configuration Parameters” documentation series . The “x” refers to the installed location, e.g. 920-TDG-013 is for GSFC DAAC.

4.3.4.3.1 Interfaces and Data Types

Not applicable.

4.3.4.4 Databases

The XRP-II application uses the COTS product UNIFY for data base functions. Refer to the UNIFY documentation.

The table below lists the fields encountered on the ILM screens. The names were taken from the screens and the descriptions from online help for the field or interpretation of the screen function. The data attributes of the fields are extracted from the XRP-II data base.

Many CHUIs have several fields grouped together that are filled in by the program as a result of a different field. For instance, an EIN may determine all the LOCATION parameters (Location, Building, Room). These cases are indicated as MULTI-FIELD in the Data-Type column below.

Table 4.3.4-83. ILM Field Descriptions (1 of 19)

Field Name	Data Type	Size	Description
# (PO)	Number	4	Count of entries on the Item Page
ACTIVE DATE	String	8	Date the item is received and entered into inventory
ADDRESS 1 (CONSIGNEE)	String	30	First part of address
ADDRESS 2 (Consignee)	String	30	Second part of address.
ALDT	Floating	9.1	This field is used to enter the known (actual) ALDT time in hours.
ALDT REASON CODE	String	10	Enter the reason code for the ALDT.
ALPHA (Shipment Numbers)	String	2	Alpha code corresponding to site number used in shipment tracking.
AMOUNT (Carrier)	A	7	Amount of carrier services used.
ARCHIVE LOCATION	String	6	Physical location of archived item
ARCHIVE PARENT	String	1	Enter Y if parent is to archived along with children
ASSEMBLY ID	String	35	Identifier for the assembly displayed. All components of the assembly can be referenced through this parent id or code.
BASELINECONTROL ITEM ID	String	20	This field provides the ability for the user to point to an equivalent item contained within the BASELINE MANAGEMENT system. ILM will enter the BLM Control Item based on the OEM Part Number.
BATCH NUMBER	Number	8	This is the system assigned batch number for the group of transactions the user enters, when transferring consumables and spares.
BDLG (PO)	String	6	This field is used to designate the building number within the site where the item is.
BILL OF LADING	String	255	The user will enter the actual Bill of Lading in this field.
BILL TO BRANCH	String	6	Enter the site code for the vendor to send the invoice. The operator may /Zoom to the Location table for other location codes.
BILL TO SITE	String	6	Enter the site code for the vendor to send the invoice. The operator may /Zoom to the Location table for other location codes.
BLDG	String	6	This field is used to designate the building number within the site where the item is

Table 4.3.4-79. ILM Field Descriptions (2 of 19)

Field Name	Data Type	Size	Description
BUILDING	String	6	This field is used to designate the building number within the site where the item is.
BUYER	String	6	Enter the buyer ID. The operator may /Zoom to the buyer data base to obtain the appropriate value.
BUYER CODE or RANGE	String	2	Enter the buyer ID. The operator may /Zoom to the buyer data base to obtain the appropriate value.
BUYER ID	String	6	Enter the buyer ID. The operator may /Zoom to the buyer data base to obtain the appropriate value.
CARRIER ID	String	6	Enter the code to be used for the carrier
CC MAIL (Employee)	String	30	CC-mail address of the employee described by the displayed code.
CCR #	String	30	Enter the applicable CCR number.
CHANGE NUMBER	Number	3	Enter the numeric value of the change number for PO's that have experienced modifications from the original entry date.
CHILD	String	14	Displayed is the CHILD EIN with the description of the item under
CITY	String	20	City part of address
CODE	String	2	The administrator can set up codes for their specific needs if desired.
CODE (Hardware/Software)	String	10	The user will enter any desired (Hardware/Software) code in this field.
CODE (Maintenance)	String	2	The user will enter any desired code in this field.
CODE (Requisition)	String	2	is a special user code that you can associate with this requisition.
CODE (Status codes)	String	4	The user will enter any desired (Status codes)code in this field.
COMMENT	String	60	This field is a user comment field.
COMPONENT EIN	String	35	This field is the component EIN number of the Parent EIN.
COMPONENT ID	String	35	Identifier for the specific component displayed
COMPONENT ID (Assembly)	String	35	Identifier for the specific component of the displayed assembly. The first component of an assembly must have the same id/code as the assembly id.
CONSIGNEE NAME	String	30	Name of individual/office responsible for material at the site.
CONTRACT ID	String	15	The user will enter the actual ID as assigned by Purchasing or provided by the vendor.
CONTRACT NO	String	10	Enter the maintenance contract number.
CONTROL ITEM ID	String	20	This field provides the ability for the user to point to an equivalent item contained within the BASELINE MANAGEMENT system. ILM will enter the BLM Control Item based on the OEM Part Number.
COST	Floating	9.2	This field is the purchase cost of the item.

Table 4.3.4-79. ILM Field Descriptions (3 of 19)

Field Name	Data Type	Size	Description
COST INVENTORY REPORT	Number	1	Inventory Report containing cost information
CURRENT	Date	8	Current date
CUTOFF DATE	String	8	Enter the last date for the system to examine PM items and generate orders.
CUTOFF DATE (Transaction archive)	String	8	Enter last date for transaction records to be archived.
DATE	Date	2	Date for the query; e.g. transaction date.
Date Entered	Date	2	This field is a system assigned date when the record was added to the data base and not modifiable by the user.
DATE OF BILL	Date	2	Date item was billed
DATE OF LAST ACTIVITY	Date	2	Date of last activity performed on an item
DATE OF RECOM-MENDATION	Date	2	Date the recommendation was recorded
DATE RANGE OF TRANSACTION	Date	2	Date or date range for desired transaction query
DATE TO REPORT ON OR RANGE	Date	2	Date or date range to report on
DAYS FOR NET	Number	3	Days to pay before getting penalized for late payment.
DEFAULT MFG YEAR	String	4	DEFAULT MFG YEAR
DEFAULT RECEIPT LOCATION	String	6	This field is used to designate the actual location or site of where the item is. The user may zoom to the Location screen to pick an appropriate code. NOTE : This data must be previously entered with screen Material Location Maintenance (imlocns).
DESC (Maintenance)	String	30	Enter the description of the (maintenance) code.
DESC (PO)	String	30	is an auto filled field based upon your selection of the OEM PART number
DESCRIPTION	String	30	is an auto filled field based upon your selection of the OEM PART number
DESCRIPTION (Hardware/Software)	String	30	Enter the description of the ((Hardware/Software) code.
DESCRIPTION (Material Location)	String	30	Text description of the utility of the site.
DESCRIPTION (Reason codes)	String	30	Enter the description of the (Reason codes) code.
DESCRIPTION (Status codes)	String	30	Enter the description of the (Status codes) code.

Table 4.3.4-79. ILM Field Descriptions (4 of 19)

Field Name	Data Type	Size	Description
DEST (PO)	String	6	This field is the destination location or site code where the parent and children are being shipped to. The user may /Z, Zoom at this field to display the location data base.
DEST BLDG	String	6	Destination building number
DEST SITE	String	6	Destination site (DAAC code)
DESTINATION	String	6	This field is the destination location or site code where the parent and children are being shipped to. The user may /Z, Zoom at this field to display the location data base.
DESTINATION BUILDING	String	6	Enter the destination building number where the item is being transferred to.
DESTINATION LOCATION	String	6	Enter the destination location (DAAC) where the item is being transferred to.
DESTINATION LOCATION,BUILDING,ROOM	MULTI-FIELD		Enter the destination location, building and room codes where the parent is to be transferred to. The operator may /Z, Zoom to the location data base to choose an appropriate location.
DESTINATION ROOM	String	6	Enter the room number where the item is being relocated to
DIMENSIONS	String	8	Enter the actual dimensions of the box.
DISCOUNT DAYS	String	3	Days to pay invoice to get discount.
DISCOUNT PERCENT	String	3	Discount percent if available.
DUE DATE	Date	2	is calculated by ILM for you (Today plus 45 days.)
E MAIL (Employee)	String	30	E-mail address of the employee described by the displayed code.
ECS NAME	String	23	This field provides the ability for the user to enter a name the item will be known by.
ECS Name	String	23	This field is the ECS Name assigned to the Parent EIN Record.
ECS Name through Old User	MULTI-FIELD		These fields are all reflected from the Parent Ein record and cannot be modified.
EIN	String	14	This field is for the entry of the actual silver tag numbers attached to each item. If an item must be controlled by the ILM but does not receive a silver tag, the system creates an internal tag number which is prefixed with the Site abbreviation and contains a sequentially assigned number. Pressing RETURN at the field prompt automatically performs this internal assignment. This number, whether entered or assigned, must be used for all machine configuration operations as well as reporting and maintenance functions.
EIN MULTI-LEVEL REPORT	Number	2	Enter the number of copies of this report to generate.
EIN OR RANGE	String	14	Field can accept two 14 character strings. E.g. EDF00000000001-EDF99999999999 for a range
EIN through ROOM	MULTI-FIELD		These fields are not modifiable by the operator and represent the actual data from the EIN file.

Table 4.3.4-79. ILM Field Descriptions (5 of 19)

Field Name	Data Type	Size	Description
E-MAIL (EMPLOYEE)	String	30	Enter employee's e-mail address.
EMPL	String	10	Enter the employee code.
EMPLOYEE NUMBER (EMPL)	String	10	Enter the employee code.
EMPLOYEE NUMBER (Employee)	String	10	Employee identification number Employee code generated by the program.
EMPLOYEE OR RANGE	String	8	Enter employee id code to query on
END DATE	Date	2	Enter the date the contract will expire.
ENGINEERING CHANGE	String	8	This field is the change number assigned when the record was added to the data base. The user should press RETURN at this field to allow the system to assign the default.
ENTER FILENAME TO USE	String	20	Enter filename to archive the transaction log to.
ENTER NAME TO USE	String	20	Enter filename to archive the transaction log to.
ENTER NUMBER OF COPIES	Number	1	Enter any number of copies of the report to print.
ENTER NUMBER OF COPIES (MAINTENANCE WORK ORDER REPORTS)	Number	1	Enter any number of copies of the report to print.
ENTER NUMBER OF COPIES (WORK ORDER STATUS)	Number	1	Enter any number of copies of the report to print.
EOM Part through WARRANTY DATE	MULTI-FIELD		These fields are all copied from the child EIN record and may be modified in this screen as required.
ESTIMATED DUE DATE	Date	2	Enter the estimated due date for the material being ordered.
ESTIMATED SHIP DATE	Date	2	This field is the estimated ship date for the shipment.
Events	String	30	Name of the event
EXPLOSION QUANTITY	Number	2	Enter number of level to be displayed for parent ein structure
EXPORT FUNCTIONING	String	1	Allows use of the Export Inventory Data function.
FAILURE CODE	String	2	Code identifying the failure
FAILURE DATE	Date	2	Enter actual failure date.

Table 4.3.4-79. ILM Field Descriptions (6 of 19)

Field Name	Data Type	Size	Description
FAILURE DATE and TIME	MULTI-FIELD		Enter actual failure date and time.
FAILURE TIME	String	2	Enter actual failure time.
FAX NUMBER (Employee)	String	13	FAX number of the employee described by the displayed code.
FIELD NUMBER	Number	8	The field number of the transaction field to query.
FIRST NAME (Employee)	String	30	First name of the employee described by the displayed code.
FREQUENCY	Number	3	Enter number of days between PM's.
FROM BLDG	String	6	This field shows the original building number of where the item resides
FROM LOCATION	String	6	This field shows the original location of where the item resides
FROM SITE	String	6	This field shows the original site of where the item resides
FROM SITE OR RANGE	String	6	Enter site (DAAC) or range to report on
HD/SW CODE	String	10	This field provides the ability for the user to enter a code designating the type of item. The user may zoom to the Hardware/Software data file. NOTE: This data must be previously entered in screen Hardware/Software Codes (hwswcd).
HDWSFT CODE	String	10	This field provides the ability for the user to enter a code designating the type of item. The user may zoom to the Hardware/Software data file. NOTE: This data must be previously entered in screen Hardware/Software Codes (hwswcd).
ILM	String	1	Flag Y/N indicating ILM vs Baseline Manager.
ILM INTERNAL SHIPMENT SEQUENCE	Number	6	This field is the internal shipment sequence maintained by the system. The user should always press return at this field to allow the system to assign the next internal sequence number.
INACTIVE DATE	Date	2	This field is the date to make the structure ineffective.
INCLUDE PREVIOUSLY RELEASED ITEMS (YN)	String	1	Include (Y) items covered in the selected POs that have a RELEASE CODE showing the item is released. Else (N) display only unreleased items.
INSTALL	String	1	This field accepts either a 'N' or 'Y' to designate to the system which items are to be shipped with the parent..
INSTALL DATE	Date	2	This date reflects the actual date this item was installed.
INSTALL/RECEIPT REPORT	Number	2	Enter number of copies of this report to generate.
INSTALLATION DATE	Date	2	This date reflects the actual date this item was installed.
INSTALLATION DATE OR RANGE	Date	2	Enter installation date or range of dates to report on

Table 4.3.4-79. ILM Field Descriptions (7 of 19)

Field Name	Data Type	Size	Description
INSTALLATION REPORT	Number	4	This field is the installation report number assigned by the system when an installation had occurred and as reflected from the EIN Record for the Parent EIN.
INSTALLATION REPORTS	Number	4	This field is the installation report number assigned by the system when an installation had occurred and as reflected from the EIN Record for the Parent EIN.
INVENTORY REPORT - BY LOCATION	Number	2	Enter number of copies of this report to generate.
ITEM NUMBER or RANGE	String	8	Item number(s) to report.
ITEM PRICE	Floating	11.4	This field is the purchase cost of the item. Same as COST.
LAST & CURRENT	String	35	indicates the last requisition entered and the current requisition you are reviewing.
LAST CONTROL ITEM ID	String	20	Control Item ID to display as the last ID assigned. A new generation of Control Item IDs will be generated starting with this one.
LAST DATE	Date	2	Enter the last date a PM as performed for this item.
LAST EIN	String	20	EIN to display as the last EIN assigned. A new generation of EINs will be generated starting with this one.
Last Name	String	30	This field reflects the employee last name from the employee master file.
LAST NAME (Employee)	String	30	Last name of the employee described by the displayed code.
LATEST DUE DATE to RELEASE	String	8	is calculated by ILM for you (Today plus 45 days.)
LINE NO.	Number	4	Line number of the item if there is an order associated with the transaction
LOCATION	String	8	This field is used to designate the actual location or site of where the item is. The user may zoom to the Location screen to pick an appropriate code. NOTE : This data must be previously entered with screen Material Location Maintenance (imlocns).
LOCATION TYPE	String	1	Specifies the material application at the site: Null or S = stock, R = received, N = non-nettable, W = work center, A = archive.
LOCATION TYPE (Material Location)	String	1	Specifies the material application at the site: Null or S = stock, R = received, N = non-nettable, W = work center, A = archive.
MACHINE NAME`	String	6	Name of a machine used to set a source or destination for data transfer.
MAINT CODE	String	3	The user will enter any desired code in this field.

Table 4.3.4-79. ILM Field Descriptions (8 of 19)

Field Name	Data Type	Size	Description
MAINT CONTRACT	String	15	This field is used to enter the Maintenance Contract number for maintenance on this particular item. The user may zoom to the Contract data file and choose the desired contract number. NOTE: This data must be previously enter with screen Maintenance Contracts (mntcont).
MAINT VENDOR	String	6	This field is used to enter the code for the vendor who is the maintenance vendor. The user may zoom to the Vendor data file and choose the appropriate code. NOTE: This information must be previously entered using screen Vendor Master Maintenance (vmasts).
MAINTENANCE DUE ON	String	8	Enter the date the next maintenance is due.
MANUFACTURED DATE	Date	2	Date Manufactured
MATERIAL LOCATION ID	String	6	ID for the location where material can be found.
MAX. QTY ON HAND AND ON ORDER	Floating	10.1	Maximum number of items in stock plus the number on order
MAXIMUM ORDER QUANTITY	Floating	9.1	Maximum number of items to order or reorder
MEDIA	String	2	Media material
MEDIA CODE	String	1	Code for Media identification
MFG	String	6	This is the code of the manufacturer.
MFR/DEV	String	6	This field is used to enter the Manufacturer or Developer ID. The user may zoom to the appropriate data file and pick the desired code. NOTE: This data must be previously entered with screen Vendor Master Maintenance (vmasts).
MINIMUM ORDER QUANTITY	Floating	9.1	Minimum number of items to order or reorder
MOD/VER	String	24	This field is used to enter the actual Model and or Version of the item. If the user had chosen a known OEM Part, this field will be written with the information from this file.
MOD/VER (PO)	String	24	This field is used to enter the actual Model and or Version of the item. If the user had chosen a known OEM Part, this field will be written with the information from this file.
MODEL/VERSION	String	24	This field is used to enter the actual Model and or Version of the item. If the user had chosen a known OEM Part, this field will be written with the information from this file.
MODEL/VERSION (Part numbers)	String	24	This field is used to enter the actual Model and or Version of the item.
MULTIPLE ORDER QUANTITY	Floating	9.1	Number of items to order in a multiple parts/items order
Name	String	30	This field is the user's name as reflected from the user file.

Table 4.3.4-79. ILM Field Descriptions (9 of 19)

Field Name	Data Type	Size	Description
NAME	String	30	Vendor name for the displayed vendor ID.
Name (Buyer ID)	String	30	This field is the user's name as shown in the Buyer file.
NAME (Carrier)	String	30	Enter the name of the carrier corresponding to the displayed code.
NASA CONTRACT	String	11	This field is used to designate the Contract number used for this item. This information is automatically assigned and can not be changed.
NASA CONTRACT NUMBER	String	11	Default NASA Contract Number
NEW (REPORT NUMBERS)	String	5	Enter the corresponding NEW Report numbers.
NEW (Report numbers)	String	5	Enter the corresponding NEW Report numbers.
NEW BUILDING	String	10	This field is the new building code where the parent was installed.
NEW LOCATION	String	6	This field is the new location code or site code where the parent was installed.
NEW PARENT EIN	String	14	Enter new parent ein for component being relocated
NEW ROOM	String	6	This field is the new room code where the parent was installed.
NEW USER	Number	4	This field is the user code the parent was assigned to. The operator may /Z, Zoom at this field to view the User data base.
NEXT REVIEW DATE	Date	2	Date of next inventory quantity check
NO (Shipment Numbers)	Number	4	Site number used in shipment tracking.
NOTE	String	60	This field is used to enter a 60 character note attached to this item.
NOTE (PO)	String	60	Enter a 60 character note to describing why this PO is used
NOTE (Requisition)	String	60	is a field for you to enter a 60 character note about this requisition. For example why you are buying this material or who told you to order these items, etc.
NOTE 1	String	60	This field is used to enter a 60 character note attached to this item.
NOTE 1 and NOTE 2	String	60	Enter any notes to appear on the header of the report.
NOTE 2	String	60	This field is used to enter a 2nd 60 character note attached to this item.
NOTIFICATION DATE	Date	2	Notification Date
NOTIFICATION DATE and TIME	MULTI-FIELD		These fields are initialized with the current date and time and can be modified.
NOTIFICATION TIME	Time	2	Notification Time

Table 4.3.4-79. ILM Field Descriptions (10 of 19)

Field Name	Data Type	Size	Description
Nth MACHINE TO SEND TO	String	6	Enter Site Code of machine to receive Inventory Data.
NUMBER	Number	8	Record number of database record being observed.
Number of Cartons and Weight	MULTI-FIELD		Number of cartons and total weight of shipment.
NUMBER OF COPIES	String	1	Enter any number of copies of the report to print.
NUMBER OF COPIES (PM ORDERS)	String	1	Enter any number of copies of the report to print
NUMBER OF COPIES (WORK ORDER HISTORY REPORT)	String	1	Enter any number of copies of the report to print
NUMBER OF LEVELS TO EXPLODE	Number	2	Enter number of levels to display for a particular parent structure.
OEM Desc	String	40	This field is the OEM Description reflected from the EIN Record for the Parent EIN.
OEM DESC (WO)	String	40	This field reflects the description of the OEM PART NUMBER entered in the field above, but provides the ability for the user to modify it in the EIN file.
OEM DESCRIPTION	String	30	This field reflects the description of the OEM PART NUMBER entered in the field above, but provides the ability for the user to modify it in the EIN file.
OEM DESCRIPTION (Part numbers)	String	30	This field reflects the description of the OEM PART NUMBER entered in the field above.
OEM MFG (Part numbers)	String	40	This is the name of the manufacturer.
OEM Part	String	34	This field is the OEM part number reflected from the EIN record of the child.
OEM PART	String	34	is the manufacturer's part number of the item(s) you are ordering. The next field, DESCRIPTION, is automatically filled with the selected part's description when you make this selection. Use the /Zoom screen to assist your selection
OEM PART (Part numbers)	String	34	This is the manufacturer's part number of the item being cataloged
OEM PART NUMBER	String	34	This field is for the entry of the Manufacturer's or Vendor's part number. The user may perform a zoom to the OEM PART NUMBER screen (oempart) at this field to pick the appropriate item. NOTE: These OEM Part Numbers must be entered prior to the use in this screen. When an item is from this file is chosen, the information contained in the file is written to the EIN file.

Table 4.3.4-79. ILM Field Descriptions (11 of 19)

Field Name	Data Type	Size	Description
OEM Part, Model, and OEM Desc	MULTI-FIELD		These fields are reflected from the EIN record of the entered parent EIN.
OEMPART (PO)	String	34	is the manufacturer's part number of the item(s) you are ordering. The field, DESC, is automatically filled with the selected part's description when you make this selection. Use the /Zoom screen to assist your selection
OLD (Report numbers)	String	5	The user will enter OLD Report numbers.
OLD BUILDING	String	6	Shows current building number of where the item resides
OLD LOCATION	String	6	Shows current location (DAAC) of where the item resides
OLD ROOM	String	6	Shows the current room number of where the item resides
OLD USER	String	10	Shows the current user for the item
Operator ID	String	8	This field is the login ID of the user who added this item to the data base and is not modifiable by the user.
OPERATOR ID	String	8	UserID of the operator performing this value is supplied by the program.
ORDER	String	6	Descriptor for the order
ORDER POLICY	String	1	Enter type of ordering policy such as P=Fixed period, Q=Fixed quantity etc.
ORDER QUANTITY	Floating	9.1	Quantity to order
ORDER STATUS [FRCX] (Status)	String	2	Enter the appropriate status. When the order is first entered, the status is NULL When the order has been printed, the status moves to 'R' for released. When all line items have been received complete, the status moves to 'C' for complete. The status of 'X' is used to manually cancel an order.
ORDER TYPE	String	2	Code for order : e.g PO, WO
OUTSIDE CONTRACTOR	String	1	This field should always be left at the default of 'Y'.
PACKING LIST	String	20	Tracking Identifier/ ID of the packing list included in the received shipment.
PAGER NUMBER (Employee)	String	13	Pager Number of the employee described by the displayed code.
PAGER NUMBER(EMPLOYEE)	String	18	Enter Employee's pager number
PARENT	String	20	Enter the Parent EIN number to be shipped.
PARENT EIN	String	14	This field is the Parent EIN for the installation/structure. The user may /Z, Zoom at this field to view the entire EIN data base.

Table 4.3.4-79. ILM Field Descriptions (12 of 19)

Field Name	Data Type	Size	Description
PART (OEM Part Number)	String	20	This field is for the entry of the Manufacturer's or Vendor's part number. The user may perform a zoom to the OEM PART NUMBER screen (oempart) at this field to pick the appropriate item. NOTE: These OEM Part Numbers must be entered prior to the use in this screen. When an item is from this file is chosen, the information contained in the file is written to the EIN file.
PART (OEM PART NUMBER) OR RANGE	String	34	Enter Manufacture or Vendor part number or range to query
PART BUYER	String	6	is filled by ILM using you user ID
PAYMENT TERMS CODE	String	2	Enter code for payment. The operator may /Zoom to the payment terms data base to choose the appropriate terms code.
PERSON REQUESTING	String	8	Name of person completing the requisition. Automatically filled in from the operator's UserID.
PHONE	String	18	Telephone number of address
PHONE (Buyer)	String	18	Telephone number of the Buyer described by the displayed code.
PHONE (Employee)	String	18	Telephone number of the employee described by the displayed code.
PIN	String	20	Enter the PIN number applicable for authorization for vendor contact.
PO NUMBER	String	10	The user will enter the Purchase Order Number in this field for item selection when adding children items. The user will use the PO Number or the Vendor Code in he next field. For Receipts the field is filled in by the Receiving system and designates the Purchase Order the item was received against.
PRICE	Floating	11.4	is the total price of each item.
PRINT PURCHASE ORDERS (YN)	String	1	Print (Y) the displayed information. Else (N) do not print.
PRIORITY	String	1	This is a user controlled field and any value may be entered.
PROCEED	String	1	Enter Y or N to proceed with process.
PROCEED?	String	1	Y or N to continue the process
PURCHASE ORDER	String	10	This is the actual Purchase Order number. The system will generate the next available number for you when you press <RETURN>. The operator can use the Purchase Order Modification screen to change the PO number after the actual PO number is obtained from Purchasing
PURCHASE ORDER (Requisition)	String	10	is the PO # associated with this requisition

Table 4.3.4-79. ILM Field Descriptions (13 of 19)

Field Name	Data Type	Size	Description
PURCHASE ORDER or RANGE	String	10	This is the actual Purchase Order number. The system will generate the next available number for you when you press <RETURN>. The operator can use the Purchase Order Modification screen to change the PO number after the actual PO number is obtained from Purchasing
PURCHASE ORDER or RANGE	String	10	PURCHASE ORDER number(s) to report.
PURCHASE TERMS CODE	String	2	Enter the terms code for the PO.
QUANTITY	Floating	10.1	Enter the quantity of the boxes having the same dimension and weight.
QUANTITY (PO)	Floating	10.1	Number of items on order.
QUANTITY PER (Assembly)	Floating	10.3	The total number of the displayed components in the assembly.
QUANTITY REQUIRED	Floating	9.1	is the total number of items you wish to order.
REASON	String	4	Enter the appropriate reason code for the delay entered.
REASON CODE	String	4	Enter the reason code for the transfer, The operator may /Z, Zoom to the reason code data base to choose the appropriate code.
RECEIPT	Number	6	Number assigned to order during receipt process
RECEIPT DATE or RANGE	Date	2	Receipt date(s) to report.
RECEIPT LIST BY PART	Number	2	Enter 1 if report listing all receipts for a particular part number.
RECEIPT NUMBER or RANGE	String	6	Receipt tracking number(s) to report.
RECEIPTS BY EIN	Number	2	Request report of receipts in order by EIN
RECEIPTS BY PART	Number	2	Enter 1 if report listing a parts by receipt is required.
RECEIPTS BY RECEIPT NUMBER	Number	2	Request report of receipts in order by Receipt number
RECEIPTS BY VENDOR	Number	2	Enter 1 if report listing receipts by vendor is required
RECEIVE DATE	String	8	Date item was received from vendor
RECEIVED BY	String	4	User Id code of the operator entering this receipt.
RECEIVED DATE	Date	2	The date the item was received.
RECOMMENDED VENDOR	String	6	selects the vendor code and is your opportunity to select your vendor of choice for this item. Use the /Zoom screen to assist your selection. ILM fills in the name fields for you when you make this selection.
RECORD EVENTS	String	1	Flag to indicate the events are to be recorded.
RELEASE CODE	String	10	This field is used for entry of the actual release code for the item.

Table 4.3.4-79. ILM Field Descriptions (14 of 19)

Field Name	Data Type	Size	Description
REORDER POINT	Floating	10.1	Quantity at which reorder of item should occur
REPLACE (R) or NEW (N)	String	1	Enter an 'R' in this field for the Child EIN that had been replaced in the machine. When entering a new item, be sure to place an 'N' in this field to designate the record as being new.
REPLACE OR ADD DATE	String	8	Date add or replace occurred.
REPORT NUMBER	Number	4	This field is the installation report number assigned by the system when an installation had occurred.
Report Number and Alpha	MULTI-FIELD		These two fields display the shipping report number for the location and parent EIN and are not modifiable by the user.
REQN (PO)	Number	8	is the requisition number assigned to this Purchase Order. It automatically generated when the user presses the <ENTER> key.
REQUISITION	Number	8	is the requisition number assigned to this Material Requisition. It automatically generated when the user presses the <ENTER> key.
REVIEW PERIOD	Number	3	Number of days to perform inventory check
RMA#	String	6	Reliability Maintainability Availability number.
ROOM	String	6	This field is used to enter the actual room number of where the item is or will be shipped to.
SEND NOW	String	1	Flag to indicate subject is to be sent in response.
SEQUENCE	Number	4	This field is the automatically assigned sequence number of the cartons data attached to the shipment header record.
SERIAL NUMBER	String	30	This field is for the entry of the serial number of the product being entered. If the item does not contain a serial number of it's own, the system will assign an internal number prefixed with the Site abbreviation and contain a sequentially assigned number. Pressing RETURN at the field prompt automatically performs this internal assignment
Serial Number through Control Item ID	MULTI-FIELD		These fields are all reflected from the EIN file for the Parent as entered.
SERIAL NUMBER THROUGH LOCATION	MULTI-FIELD		
Serial Number through Room	MULTI-FIELD		These fields are all reflected from the EIN file for the Parent as entered.
SET AS PM ITEM (Y/N)	String	1	Enter a 'Y' in this field if the item should experience a preventative maintenance operation.
SHIP DATE	Date	2	This field is the actual shipping date and defaults to the current date.
SHIP REPORT	Number	3	This field is the report number assigned to this item as reflected from the Parent EIN record when the item was shipped.

Table 4.3.4-79. ILM Field Descriptions (15 of 19)

Field Name	Data Type	Size	Description
SHIP TO BRANCH	String	6	Enter the site code for the material to be shipped to The default is the current site. The operator may /Zoom to the Location table for other location codes.
SHIP TO SITE	String	6	Enter the site code for the material to be shipped to. The default is the current site. The operator may /Zoom to the Location table for other location codes.
SHIP VIA	String	20	This field is used to enter the shipment method.
SHIPMENT NUMBER	Number	6	Sequential number assigned to a shipment
SHIPMENT REPORT	Number	2	Enter number of copies of report to print
SHIPPING REPORT ALPHA	String	2	Shipping report code associating an alpha code to a numeric site code. See Shipment Numbers by Site screen (shipno).
SHIPPING REPORT NUMBER	Number	2	This field is the report number assigned to this item when the item was shipped.
SITE	String	6	This field is used to designate the actual location or site of where the item is. The user may zoom to the Location screen to pick an appropriate code. NOTE : This data must be previously entered with screen Material Location Maintenance (imlocns).
SITE (Location)	String	6	This field is used to designate the actual location or site of where the item is. The user may zoom to the Location screen to pick an appropriate code. NOTE : This data must be previously entered with screen Material Location Maintenance (imlocns).
SITE ID (Location)	String	6	This field is used to designate the actual location or site of where the item is. The user may zoom to the Location screen to pick an appropriate code. NOTE : This data must be previously entered with screen Material Location Maintenance (imlocns).
Site Name	String	46	Name of the Site whose code is displayed.
SMC MACHINE NAME	String	6	Enter the SMC machine name to receive Inventory Data.
SOFTWARE LIC NUM	String	10	This field is used to enter the license number for a software type license item.
START DATE	Date	2	Enter the date the contract is to become effective.
START DATE and END DATE	MULTI-FIELD		These fields are used to enter the beginning and ending dates for known delay times in the repair of a system.
START TIME and END TIME	MULTI-FIELD		These fields are used to enter the beginning and ending times associated with the dates above for known delay times in the repair of a system.
STATE	String	2	State 2 character abbreviation of address.
STATUS	String	1	Status code for TERMS CODE
Status	String	10	This field is the current status of the item.

Table 4.3.4-79. ILM Field Descriptions (16 of 19)

Field Name	Data Type	Size	Description
STATUS	String	10	Enter the appropriate status. When the order is first entered, the status is NULL When the order has been printed, the status moves to 'R' for released. When all line items have been received complete, the status moves to 'C' for complete. The status of 'X' is used to manually cancel an order.
STATUS (Carrier)	String	10	Status of the carrier.
STATUS (Employee)	String	1	Status of the employee described by the displayed code.
STATUS CODE	String	1	This field designates the status of the item and is controlled by transactions within the system.. The following codes are included : R - Received; S - Shipped; I - Installed; A - Archived;
Status through Phone	MULTI-FIELD		These fields present the status of the parent and the coassignee name and address information from the location data base.
SUBLOCATION/LOT	String	10	Additional identification of the receipt location.
SUBMITTER	String	10	Enter the employee code for the person who submitted the problem and caused the work order to be opened. The operator may /Z, zoom to the employee file.
SWITCH OVER TIME	String	5	Enter the total hours required for switch over.
SYSTEM PARAMETER KEY	String	1	The Key filed of the System Parameter file. The active record has the value A.
TABLE NAME	String	20	The table name of the database table containing the field to query.
TERMS CODE	String	2	Enter the code to be used for this TERMS set.
TERMS DESCRIPTION	String	20	Description for this TERMS CODE.
TEXT	String	8	Press /Z at this prompt to obtain a free form text window. The operator should enter the failure / repair details in this window. When complete, press F3 to exit the text window.
Time	Time	2	Time for the query; e.g. transaction time
TIME TO REPAIR	Time	2	This field is used to enter the known time the repair required in hours.
TIMES (Carrier)	String	8	Number of times carrier has been used.
TOTAL	Number	10	This is the system calculated value of the order.
TOTAL CHARGEABLE DOWNTIME	String	5	Enter the total hours to be charged for downtime.
TRAN CODE	Number	3	This field designates the transaction code. The value will always be set to '03' and is not modifiable by the user
TRANS HISTORY BY EIN	Number	2	Enter number of copies of this report to generate.

Table 4.3.4-79. ILM Field Descriptions (17 of 19)

Field Name	Data Type	Size	Description
TRANSACTION ID	Number	6	Number assigned to a particular transaction
TRANSACTION KEY	Number	8	The transaction log key field. This key is assigned by the program.
TRANSACTION TYPE	Number	2	Code for the TYPE of transaction to query: A = Add, M = Modify, D = Delete.
TRANSFER	String	1	Enter a 'Y' if the child is to be transferred.
TRANSFERRED RECORD LOCATION	String	20	This field is used to designate the actual location or site of where the item is. The user may zoom to the Location screen to pick an appropriate code. NOTE : This data must be previously entered with screen Material Location Maintenance (imlocns).
TROUBLE TICKET	String	15	Enter the applicable trouble ticket number here.
TROUBLE TICKET #	String	15	Enter the applicable trouble ticket number here
TT	String	15	Enter the applicable trouble ticket number here
TT #	String	15	Enter the appropriate Trouble Ticket number if this PO is open because of a trouble ticket.
TYPE OF ORDER	String	1	allows you to select the appropriate code this requisition:
TYPE OF ORDER CODE	String	1	This field should always be left at the default of 'S'.
TYPE OF ORDER(Requisition)	String	1	allows you to select the appropriate code this requisition:
TYPE OF ORDER, NULL	String	1	Null = Miscellaneous
TYPE OF ORDER, R	String	1	R = RFQ
TYPE OF ORDER, STOCK	String	1	S = Stock
TYPE OF SORT	String	1	Null = part, S = Sort string N = Sort number
TYPE OF TRANSACTION	String	3	Code assigned to the type of transaction being performed
UNIT COST	Number	10	This field is used to enter the price for each item.
UNIT OF MEASURE	String	2	is the measure of the item you are buying. Use the /Zoom screen to assist your selection
USE BRANCH AS ORDER PREFIX	String	1	This option will generate Purchase and Work Orders with the Work Center code for the employee creating the Order as a prefix.
USER	String	8	The user code of the person who has the item. The user may choose to zoom to the User ID data base and pick the appropriate code. NOTE : This information must be previously entered with screen Employee Maintenance (sfempmnt).

Table 4.3.4-79. ILM Field Descriptions (18 of 19)

Field Name	Data Type	Size	Description
VENDOR	String	6	This field is used to enter the Vendor code whom the item was purchased from. The user may zoom to the Vendor data file and pick the desired code. NOTE: This data must be previously entered using screen Vendor Master Maintenance (vmasts).
VENDOR (Part numbers)	String	6	Enter the vendor ID. The operator may /Zoom to the vendor data base to choose the appropriate vendor code.
VENDOR ARRIVAL DATE and TIME	MULTI-FIELD		Enter the date and time the vendor actually arrived to perform the repairs.
VENDOR ARRIVE DATE AND TIME	MULTI-FIELD		Enter the date and time the vendor actually arrived to perform the repairs.
VENDOR CALL DATE	Date	2	Date the vendor was called and informed of the problem.
VENDOR CALL DATE AND TIME	MULTI-FIELD		Enter the date and time the vendor actually arrived to perform the repairs.
VENDOR CALL TIME	Time	2	Time the vendor was called and informed of the problem.
VENDOR COMPLETE DATE and TIME	MULTI-FIELD		Enter the actual date and time the vendor completed the repairs.
VENDOR CONTACT NAME	String	30	Vendor point of contact
VENDOR ID	String	6	Vendor id code of equipment being queried
VENDOR ID OR RANGE	String	6	Vendor id code of equipment being queried
Vendor name	String	35	Vendor name on the PO
VENDOR PART	String	16	is the actual vendor part number if it differs from the OEM part number entered earlier on this screen.
VENDOR POC	String	30	Enter the name of the person designated as the point of contact at the vendor facility.
VENDOR REFERENCE	String	20	User has option to enter any information in reference to the vendor
WARRANTY DATE (WO)	Date	2	This field is the end date for the warranty period.
WARRANTY EXP DATE	Date	2	This field is used to enter the end date for the warranty period. This field default to 365 days from the date of entry.
WEIGHT	Floating	7.1	Enter the weight of the box.
WORK CENTER (Employee)	String	6	Work Center (normally assigned) of the employee described by the displayed code.
WORK ORDER	String	10	This is the actual Work Order number. The operator should always press RETURN to obtain the next number sequentially assigned by the system.
WORK ORDER or RANGE	String	25	Enter the Work Order number or range of numbers to examine.

Table 4.3.4-79. ILM Field Descriptions (19 of 19)

Field Name	Data Type	Size	Description
YEAR MFG	String	4	This field is used to enter the actual 4-digit year the item was manufactured. This field defaults to the current year.
ZIP	String	10	Zip code of address.

4.3.4.5 Special Constraints

NONE.

4.3.4.6 Outputs

Outputs from the XRP-II application for ILM are generated in several ways.

Table 4.3.4-84. Outputs

Output	Description and Format
CHUI displays	Menus and functions described in section 4.3.4.2
ILM Reports	Reports generated from Report selections on the ILM menu CHUIs
ILM ad hoc reports	Reports generated using the /Report option on ILM CHUIs
Prints of CHUI displays	Screen prints of the displayed information.
File output	Files generated with the Write option on ILM CHUIs
Data base updates	ILM Add, Insert, Copy, Delete, and Modify actions

4.3.4.7 Event and Error Messages

Error messages from ILM that originate from data storage access conflicts are documented inAppendix E of UNIFY Direct HLI Programmer's Manual.

4.3.4.8 Reports

The reports used by ILM are provided in Table 4.3.4-81. This is not a complete list, but provides a representative sample of reports used by this tool.

Table 4.3.4-85. Reports

Report Type	Report Description	When and Why Used
Installation	This report provides a record of the installation of equipment (including model, version, serial numbers, and warranty period).	Whenever equipment is installed at a site to keep track of equipment available and warranties and licenses.
Installation Summary	This report provides a summary of an installation or replacement or addition of equipment to a site.	Whenever equipment is installed, added or replaced at a site to keep track of equipment available and warranties and licenses.
Inventory - By Location	This report provides an inventory by Site. Filters can be used to limit “Site” to specific rooms.	This report would be used to assist in performing an Inventory Audit.
Equipment Installation/ Receipt	This report provides a record of receipt of equipment at a site and the location, date, and time of the installation of the equipment.	Whenever equipment is received at a site for installation for equipment tracking purposes.
Maintenance Work Order	This report provides a record of any maintenance done to any equipment at a site.	To record and track all maintenance on equipment at a site.
Receipts	This report provides three distinct ways to list receipts. Receipts are listed by part, vendor, or list by part.	To track parts, when received, and vendor part is received from.
Purchase Order	This report provides a record of a purchase order(s).	Whenever a purchase is made for equipment for a site.
Relocation	This report provides a record of any equipment relocations within or outside of a site.	Whenever equipment is relocated from one place to another within the ECS.
Shipping	This report summarizes the shipment of equipment from one site to another.	Whenever the SMC sends equipment to one of the DAACs.
EIN Structure	This report provides a listing of equipment with parent and child (parts) of equipment to assemble.	Whenever equipment with parts are provided to a site to determine and track parts of equipment and for maintenance.
Transaction History	This report provides a history of all equipment transactions including archives, relocations, shipping, receiving, spares, and consumables.	Whenever an item is received, moved, put in storage, or used beyond repair.
Work Order Status	This report provides a list of work orders and the status of each work order.	To track all work orders for progress of work being performed at a site.
Equipment Transfer and Receipt	This report provides a list of equipment that has been targeted for transfer and a status of the receipt of the equipment at the transfer site.	Whenever equipment is moved from one place to another in the ECS for tracking and inventory purposes.

4.3.4.8.1 Sample Reports

EOSDIS
EQUIPMENT INSTALLATION REPORT
BY ECN NUMBER

INSTALLATION REPORT #: 144 C
ECN NUMBER: 00000434
DATE ON-SITE WARRANTY EXPIRES: 12/31/98
WARRANTY END DATE: 12/31/98
Development F
HTSC HELP CENTER PHONE: 1-800-ECS-DATA
HTSC HELP CENTER HOURS ARE: 08:00 - 17:00 EST
DATE RECEIVED: 12/01/94

USER CONTACT: Gallagher
USER PHONE: (301)925-0733
LOCATION: ECS

BUILDING #: 1616A
ROOM #: 3008E
ECS NAME: DEEPSEA

MFR	PRODUCT DESCRIPTION	MODEL/VERSION	PART NUMBER	SERIAL NUMBER	PART ECN	INSTALL DATE
SUN	SPARCStation 20-50 SX	20-50 SX	S20SX-50	445F1038	00000434	12/04/97
SUN	Tape Drive - 5 GB - 4 MM		X822A	433G0860	00000225	09/19/94
SUN	20 Inch Color Monitor		365-1324-01	9438FC6222	00000435	01/06/95
TLI	Small Uninterruptable Power Supply (UPS)		BC-1250		00000437	01/06/95
SUN	Mouse - 3 Button	Type 5	370-1398-02		EDF00000000012	04/97
SUN	Keyboard	Type 5	320-1072-01	9444068138	EDF06081	01/06/95
SUN	16 MB RAM (1 x 16 MB SIMM)		X116P	50124792801818	EDF06083	01/06/95
SUN	16 MB RAM (1 x 16 MB SIMM)		X116P	50124792801979	EDF06084	01/06/95
SUN	32 MB RAM (1x32 MB SIMM)		X132P	50126222802095	EDF06085	01/06/95
SUN	Country Kit	Type 5	X3540A		EDF06086	01/06/95
SUN	1.05 GB HD - Internal		X546A	FU619819	EDF06087	01/06/95
SUN	1.05 GB HD		X649A	FU177073	EDF06088	01/06/95
SUN	Motif Toolkit	1.2.2	MOT-P		EDF06089	01/06/95
SUN	SPARCWorks Professional C++	4.0.1	SCP-P		EDF06090	01/06/95
SUN	SPARCWorks	3.0.1	SW-S		EDF06091	01/06/95
TAR	DCE Base Services	1.0.2	DC-L710-BASE		EDF06092	01/06/95
SYB	SQL Server Utility Programs Unix		30475		EDF06093	03/12/96

SYB	Open Client Open Server Supplement	32695	EDF06094 03/12/96
SYB	Open Client Open Server Install Guide	34316	EDF06095 03/12/96

EOSDIS
EQUIMENT INSTALLATION REPORT
BY ECN NUMBER

SYB	SQL Server Install Guide		34541	EDF06096
03/12/96				
SYB	Replication Server Install Guide		34921	EDF06097
03/12/96				
SYB	System Admin Guide Supplement		35291	EDF06098
03/12/96				
SYB	SQL Server Error Messages		38574	EDF06099
03/12/96				
SYB	Connectivity Doc Set		49040	EDF06100
03/12/96				
SYB	DEC OSF Open Client OpenServer Documenta		49622	EDF06101
03/12/96				
SYB	Replication Server Documentation Set		49800	EDF06102
03/12/96				
SYB	Replication Server Rls Bull Update		71016	EDF06103
03/12/96				
SYB	Rls Bulletin Replication Server		72077	EDF06104
03/12/96				
SUN	Support - Motif Toolkit Support		MOT-LIC	EDF06105
01/06/95				
SUN	Support - Spectrum Silver Support		SILVER PGM	EDF06106
01/06/95				
TAR	Support - DCE Base Services Support		DC-S710-BASE	EDF06107
01/06/95				
SUN	SPARCWorks Professional C++ License to U		SCP-LIC	EDF06108
01/06/95				
SUN	Solaris	2.3	SOL	EDF06109
01/06/95				

(installr) DATE: 12/04/97 TIME: 10:34
ECS Development Facility **INSTALLATION SUMMARY REPORT** PAGE: 1
Dates: 12/04/97-12/04/97

PARENT EIN: 00000434 NAME: DEEPSEA
OEM PART: S20SX-50 OEM DESC: SPARCStation 20-50 SX
INSTALL DATE: 12/04/97
SITE: JPL1 ; Jet Propulsion Laboratory
BUILDING: 101 ROOM: 332

CHILDREN INCLUDED:

EIN	OEM PART	INSTALL DATE	LOC	BLDG	ROOM	USER
00000434	S20SX-50	12/04/97	JPL1	101	332	Gallagher

EOSDIS
EQUIMENT INSTALLATION/RECEIPT REPORT
BY ECN NUMBER

ECN NUMBER:	00000001	USER CONTACT	
DATE ON-SITE WARRANTY EXPIRES:	10/31/02	USER PHONE	
WARRANTY END DATE:	10/31/02	LOCATION:	
HTSC HELP CENTER PHONE:	1-800-ECS-DATA	BUILDING #	
HTSC HELP CENTER HOURS ARE:	08:00 - 17:00 EST	ROOM #:	
DATE RECEIVED:	08/20/93	HOST NAME:	N0MOG10

I certify that I have received the equipment only for work associated with NASA Contract NAS5 - 60000.

Signature: _____ Date:___/___/___

INSTALL MFR	PRODUCT DESCRIPTION	MODEL/VERSION	PART NUMBER	SERIAL NUMBER	PART ECN	DATE
SGI	INDGO XS Graphics Workstation	XS	WB-R50XS-1G32	35261778	00000001	/ /
SGI	19 Inch Color Monitor	HL7965KW-SG	D3-M92A	306017331	00000002	/ /
SGI	Tape Drive - 1.3 GB - 4 MM		P3-T13D	LAA92293	00000003	/ /
PSI	2.5 GB HD - Single Enclosure 6400 RPM		71S7-30DCC3	4072004	00000211	/ /
ATI	10 Base T Transceiver		020404		NSI02711	/ /
QVS	Mouse Pads - 9x8 Inches		MSEPAD		NSI02712	/ /
SGI	Mouse - 3 Button		9150800	339961	NSI02713	/ /
SGI	Keyboard		9500801	233655	NSI02714	/ /
SGI	Ethernet Thin-Thick		ETHNET T-T		NSI02715	/ /
SGI	8 MB SIMM RAM Chip		HU-C08C		NSI02716	/ /
SGI	8 MB SIMM RAM Chip		HU-C08C		NSI02717	/ /
SGI	8 MB SIMM RAM Chip		HU-C08C		NSI02718	/ /
SGI	8 MB SIMM RAM Chip		HU-C08C		NSI02719	/ /
SGI	Floppy Drive 3.5 Inch		P3-525S	M309218	NSI02720	/ /
SGI	1 GB HD		SD7-S10X		NSI02721	/ /

EOSDIS
EQUIMENT INSTALLATION/RECEIPT REPORT
BY ECN NUMBER

TDK	Tape Cart- 4 MM, 2 GB, 90 Meter		062002		NSI02722	/ /
RES	IDL	4.0	IDL		NSI02723	/ /
SGI	Display Postscript Systems	1.0.1	M4-DPS		NSI02724	/ /
SGI	C++	3.2.1	SC4-C++		NSI02725	/ /
SGI	DCE Executive	1.0	SC4-DCE		NSI02726	/ /
SGI	Fortran 77	4.0.1	SC4-FTN		NSI02727	/ /
SGI	IRIS Development Option + Challenge	5.2	SC4-IDO		NSI02728	/ /
SGI	Network File System	4.0.1	SC4-NFS		NSI02729	/ /
SGI	Graphics Library Documentation	4.1	M4-GLGT		NSI02730	/ /
SGI	Motif Developers Documentation	2.0.1	M4-MOTIF		NSI02731	/ /
SGI	IRIX Program Network	4.0.1	M4-UDS		NSI02732	/ /
SGI	XWindows Software Documentation		M4-X113D		NSI02733	/ /
RES	Support - fees - Unix- DEC		MAUC		NSI02734	/ /
RES	Support - Extended Support		SUPU		NSI02735	/ /
RES	Support - Extended Support		SUPU		NSI02736	/ /
SGI	Support - Software Master Contract		SERVICE		NSI02737	/ /
RES	SGI Node Locked IDL License		SGI 200		NSI02738	/ /
SGI	IRIX		SC4-W4D		NSI02739	/ /
SGI	IRIX OS UPD	5.2	026-0903-005		NSI02740	/ /
SGI	IRIS Development Options UPD	5.2	026-7245-004		NSI02741	/ /
SGI	Network File Systems UPD	5.2	026-7246-004		NSI02742	/ /
SGI	C++ Programming Lan. Compliler UPD	3.2.1	026-7247-004		NSI02743	/ /
SGI	Fortran 77 Compiler UPD	4.0.1	026-7249-005		NSI02744	/ /

(mwo) DATE: 12/04/97
TIME: 10:51
ECS Development Facility **MAINTENANCE WORK ORDER REPORT**
PAGE: 1
ote1:

WORK ORDER: EDF0000065 DATE: 12/02/97
PARENT EIN: 00000434 NAME: DEEPSEA
OEM PART: S20SX-50 OEM DESC: SPARCStation 20-50 SX
SER NO: 445F1038 MOD/VER: 20-50 SX
VENDOR: SUN : SUN Microsystems Inc
FAILED: 12/02/97 - 13:00 NOTIFIED: 12/02/97 - 14:26
VENDOR CALLED: 12/02/97 - 14:00 ARRIVED: 12/02/97 - 14:30
COMPLETED: 12/02/97 - 14:45

This is test Text for this pblm EDF0000065
Used Mouse from spares pool to solve pblm. Manufac replaced mouse to pool.

COMPONENT EIN	SERIAL NO	OEM PART	MOD/VER	REPLACED OR NEW DATE
00000225	433G0860	X822A		
//**				
00000435	9438FC6222	365-1324-01		
//**				
00000437		BC-1250		
//**				
EDF06081	9444068138	320-1072-01	Type 5	
//**				
EDF06082	MSCFL266400	370-1398-02	Type 5	REPLACED 12/02/97
Replacing this mouse with another OEM part from the spares pool.				
EDF06083	501247928018181	X116P		
//**				
EDF06084	501247928019791	X116P		
//**				
EDF06085	501262228020955	X132P		
//**				
EDF06086		X3540A	Type 5	
//**				
EDF06087	FU619819	X546A		
//**				
EDF06088	FU177073	X649A		
//**				
EDF06089		MOT-P	1.2.2	
//**				
EDF06090		SCP-P	4.0.1	
//**				
EDF06091		SW-S	3.0.1	
//**				
EDF06092		DC-L710-BASE	1.0.2	
//**				
EDF06093		30475		
//**				

EDF06094 32695
//**

(mwo) DATE: 12/04/97 TIME:
10:51
ECS Development Facility **MAINTENANCE WORK ORDER REPORT**
PAGE: 2
ote1:

COMPONENT EIN	SERIAL NO	OEM PART	MOD/VER	REPLACED OR NEW
DATE				
EDF06095		34316		
//**				
EDF06096		34541		
//**				
EDF06097		34921		
//**				
EDF06098		35291		
//**				
EDF06099		38574		
//**				
EDF06100		49040		
//**				
EDF06101		49622		
//**				
EDF06102		49800		
//**				
EDF06103		71016		
//**				
EDF06104		72077		
//**				
EDF06105		MOT-LIC		
//**				
EDF06106		SILVER PGM		
//**				
EDF06107		DC-S710-BASE		
//**				
EDF06108		SCP-LIC		
//**				
EDF06109		SOL	2.3	
//**				

(vmrecvr) DATE: 12/04/97 TIME: 10:33
ECS Development Facility **RECEIPTS BY PART** PAGE: 1
Part: * Part Description:
All Receipt Dates

Part:

TYPE	ID	NAME	RECEIPT	DATE ENTERED	ORDER NUMBER	ITEM PRICE
PO	SUN	SUN Microsystems Inc	49	11/19/97	ken1	0.00
PO	SUN	SUN Microsystems Inc	49	11/19/97	ken1	9,097.00
PO	SUN	SUN Microsystems Inc	50	11/19/97	ABC0005349	9,097.00
PO	SUN	SUN Microsystems Inc	50	11/19/97	ABC0005349	0.00
PO	SUN	SUN Microsystems Inc	50	11/19/97	ABC0005349	0.00
PO	SUN	SUN Microsystems Inc	50	11/19/97	ABC0005349	0.00
PO	SUN	SUN Microsystems Inc	50	11/19/97	ABC0005349	1,500.00
PO	SUN	SUN Microsystems Inc	50	11/19/97	ABC0005349	1,920.00
PO	SUN	SUN Microsystems Inc	50	11/19/97	ABC0005349	0.00
PO	SUN	SUN Microsystems Inc	50	11/19/97	ABC0005349	60.00
PO	NTI	Network Technologies Inc	51	11/19/97	H24198	510.95
PO	CMC	Computer City	52	11/19/97	qaz1	2,108.70
PO	CMC	Computer City	52	11/19/97	qaz1	487.00
PO	SUN	SUN Microsystems Inc	53	11/20/97	SUNTEST1	7,200.00
PO	SUN	SUN Microsystems Inc	53	11/20/97	SUNTEST1	0.00
PO	SUN	SUN Microsystems Inc	53	11/20/97	SUNTEST1	0.00

Part: 004024

TYPE	ID	NAME	RECEIPT	DATE ENTERED	ORDER NUMBER	ITEM PRICE
PO	MBA	McBride & Associates	41	06/12/97	TIMTEST01	6.81
PO	MBA	McBride & Associates	41	06/12/97	TIMTEST01	6.81

Part: 370-2040-03

TYPE	ID	NAME	RECEIPT	DATE ENTERED	ORDER NUMBER	ITEM PRICE
PO	SUN	SUN Microsystems Inc	43	11/19/97	PMA0005349	0.00
PO	SUN	SUN Microsystems Inc	43	11/19/97	PMA0005349	0.00

Part: 370-2102-01

TYPE	ID	NAME	RECEIPT	DATE ENTERED	ORDER NUMBER	ITEM PRICE
PO	SUN	SUN Microsystems Inc	43	11/19/97	PMA0005349	0.00

(vmrecvr) DATE: 12/04/97 TIME: 10:33
ECS Development Facility **RECEIPTS BY PART** PAGE: 2
Part: * Part Description:

All Receipt Dates

Part: 540-2942-02

TYPE	ID	NAME	RECEIPT	DATE ENTERED	ORDER NUMBER	ITEM PRICE
PO	SUN	SUN Microsystems Inc	41	06/12/97	TIMTEST03	125.00
PO	SUN	SUN Microsystems Inc	41	06/12/97	TIMTEST03	125.00

Part: 7005-01

TYPE	ID	NAME	RECEIPT	DATE ENTERED	ORDER NUMBER	ITEM PRICE
PO	AAC	Altair Aerospace Corp	45	08/27/97	EDF	1.00

Part: 78325045215

TYPE	ID	NAME	RECEIPT	DATE ENTERED	ORDER NUMBER	ITEM PRICE
PO	BDC	Branch Data Comm	44	11/13/97	0000000007	14.00

Part: 86133A03006

TYPE	ID	NAME	RECEIPT	DATE ENTERED	ORDER NUMBER	ITEM PRICE
PO	BDC	Branch Data Comm	44	11/13/97	0000000007	5.90

Part: A14-UBA1-9S-128EB

TYPE	ID	NAME	RECEIPT	DATE ENTERED	ORDER NUMBER	ITEM PRICE
PO	SUN	SUN Microsystems Inc	43	11/19/97	PMA0005349	14,097.00

Part: ABAH32P1200R

TYPE	ID	NAME	RECEIPT	DATE ENTERED	ORDER NUMBER	ITEM PRICE
PO	BDC	Branch Data Comm	48	11/18/97	TIM1	175.00

Part: DB1385

TYPE	ID	NAME	RECEIPT	DATE ENTERED	ORDER NUMBER	ITEM PRICE
PO	BDC	Branch Data Comm	48	11/18/97	TIM1	1,558.02

Part: * Part Description:
All Receipt Dates

****

Part: SK-540

TYPE	ID	NAME	RECEIPT	DATE ENTERED	ORDER NUMBER	ITEM PRICE
CR			39	05/25/97		0.000
CR			39	05/25/97		0.000
PO	MBA	McBride & Associates	44	11/13/97	Timtest2	13,455.00
PO	MBA	McBride & Associates	44	11/13/97	Timtest2	13,455.00

****

Part: SOLS-C

TYPE	ID	NAME	RECEIPT	DATE ENTERED	ORDER NUMBER	ITEM PRICE
PO	SUN	SUN Microsystems Inc	43	11/19/97	PMA0005349	60.00

****

Part: TRAINING

TYPE	ID	NAME	RECEIPT	DATE ENTERED	ORDER NUMBER	ITEM PRICE
PO	ASC	Atria Software Corp	43	11/19/97	Timtest1	1,480.00

****

Part: X1025A

TYPE	ID	NAME	RECEIPT	DATE ENTERED	ORDER NUMBER	ITEM PRICE
PO	SUN	SUN Microsystems Inc	43	11/19/97	PMA0005349	1,500.00

****

Part: X132P

TYPE	ID	NAME	RECEIPT	DATE ENTERED	ORDER NUMBER	ITEM PRICE
PO	SUN	SUN Microsystems Inc	43	11/19/97	PMA0005349	0.00

****

Part: X311L

TYPE	ID	NAME	RECEIPT	DATE ENTERED	ORDER NUMBER	ITEM PRICE
PO	SUN	SUN Microsystems Inc	43	11/19/97	PMA0005349	0.00

Part: * Part Description:
All Receipt Dates

Part: X5511A

TYPE	ID	NAME	RECEIPT	DATE ENTERED	ORDER NUMBER	ITEM PRICE
PO	SUN	SUN Microsystems Inc	43	11/19/97	PMA0005349	1,920.00

(vmrecvr1) DATE: 12/04/97 TIME: 10:33

ECS Development Facility **RECEIPTS BY VENDOR** PAGE: 1

Part: * Part Description:
All Receipt Dates

Vendor:

RECEIPT	DATE ENTERED	PURCHASE ORDER	VENDOR REFERENCE	PART OR DESCRIPTION	ITEM PRICE
39	05/25/97			SK-540	0.000
39	05/25/97			SK-540	0.000

Vendor: AAC Altair Aerospace Corp

RECEIPT	DATE ENTERED	PURCHASE ORDER	VENDOR REFERENCE	PART OR DESCRIPTION	ITEM PRICE
45	08/27/97	EDF		7005-01	1.00

Vendor: ASC Atria Software Corp

RECEIPT	DATE ENTERED	PURCHASE ORDER	VENDOR REFERENCE	PART OR DESCRIPTION	ITEM PRICE
43	11/19/97	Timtest1		TRAINING	1,480.00

Vendor: BDC Branch Data Comm

RECEIPT	DATE ENTERED	PURCHASE ORDER	VENDOR REFERENCE	PART OR DESCRIPTION	ITEM PRICE
44	11/13/97	0000000007		78325045215	14.00
44	11/13/97	0000000007		86133A03006	5.90
48	11/18/97	TIM1		ABAH32P1200R	175.00
48	11/18/97	TIM1		DB1385	1,558.02

Vendor: CMC Computer City

RECEIPT	DATE ENTERED	PURCHASE ORDER	VENDOR REFERENCE	PART OR DESCRIPTION	ITEM PRICE
52	11/19/97	qaz1		MTSUP	2,108.70
52	11/19/97	qaz1		98-202-300	487.00

Vendor: MBA McBride & Associates

RECEIPT	DATE ENTERED	PURCHASE ORDER	VENDOR REFERENCE	PART OR DESCRIPTION	ITEM PRICE
41	06/12/97	TIMTEST01		004024	6.81
41	06/12/97	TIMTEST01		004024	6.81
44	11/13/97	Timtest2		SK-540	13,455.00
44	11/13/97	Timtest2		SK-540	13,455.00

Vendor: NTI Network Technologies Inc

RECEIPT	DATE ENTERED	PURCHASE ORDER	VENDOR REFERENCE	PART OR DESCRIPTION	ITEM PRICE
51	11/19/97	H24198		C165001	510.95

Vendor: SUN SUN Microsystems Inc

RECEIPT	DATE ENTERED	PURCHASE ORDER	VENDOR REFERENCE	PART OR DESCRIPTION	ITEM PRICE
49	11/19/97	ken1		X132P	0.00
49	11/19/97	ken1		A14-UBA1-9S-128EB	9,097.00
50	11/19/97	ABC0005349		A14-UBA1-9S-128EB	9,097.00
50	11/19/97	ABC0005349		X132P	0.00
50	11/19/97	ABC0005349		370-2102-01	0.00
50	11/19/97	ABC0005349		370-2040-03	0.00
50	11/19/97	ABC0005349		X1025A	1,500.00
50	11/19/97	ABC0005349		X5511A	1,920.00
50	11/19/97	ABC0005349		320-2040-03	0.00
50	11/19/97	ABC0005349		SOLS-C	60.00
53	11/20/97	SUNTEST1		2510A	7,200.00
53	11/20/97	SUNTEST1		370-1922-02	0.00
53	11/20/97	SUNTEST1		320-1072-01	0.00
43	11/19/97	PMA0005349		370-2040-03	0.00
43	11/19/97	PMA0005349		370-2040-03	0.00
43	11/19/97	PMA0005349		370-2102-01	0.00
41	06/12/97	TIMTEST03		540-2942-02	125.00
41	06/12/97	TIMTEST03		540-2942-02	125.00
43	11/19/97	PMA0005349		A14-UBA1-9S-128EB	14,097.00
43	11/19/97	PMA0005349		SOLS-C	60.00
43	11/19/97	PMA0005349		X1025A	1,500.00
43	11/19/97	PMA0005349		X132P	0.00
43	11/19/97	PMA0005349		X311L	0.00
43	11/19/97	PMA0005349		X5511A	1,920.00

```
       ------------
          98,734.30                 Grand Totals:

(vmrecvr2)
DATE:  12/04/97   TIME:  10:33
ECS Development Facility                                                  RECEIPT LIST BY PART
PAGE:  1
Part:  *                                                                   All part descriptions
All vendor IDs
All vendor names                                                             All Receipt Dates

                                                                                   DATE          ORDER
QUANTITY                    EXTENDED
PART                  DESCRIPTION                                       RECEIPT ENTERED  TYPE NUMBER     ID NUMBER  RXD
(suom)  ITEM PRICE          AMOUNT
=================== ========================================================== ======= ======== ==== ========== =========
===========  ==========  =============
                      A14-UBA1-9S-128EB                                      50 11/19/97 PO   ABC0005349 SUN
1.0    9,097.00       9,097.00
                      X132P                                                  50 11/19/97 PO   ABC0005349 SUN
4.0        0.00           0.00
                      370-2102-01                                            50 11/19/97 PO   ABC0005349 SUN
1.0        0.00           0.00
                      370-2040-03                                            50 11/19/97 PO   ABC0005349 SUN
2.0        0.00           0.00
                      X1025A                                                 50 11/19/97 PO   ABC0005349 SUN
1.0    1,500.00       1,500.00
                      X5511A                                                 50 11/19/97 PO   ABC0005349 SUN
1.0    1,920.00       1,920.00
                      320-2040-03                                            50 11/19/97 PO   ABC0005349 SUN
2.0        0.00           0.00
                      SOLS-C                                                 50 11/19/97 PO   ABC0005349 SUN
1.0       60.00          60.00
                      C165001                                                51 11/19/97 PO   H24198     NTI
4.0      510.95       2,043.80
                      2510A                                                  53 11/20/97 PO   SUNTEST1   SUN
1.0    7,200.00       7,200.00
                      370-1922-02                                            53 11/20/97 PO   SUNTEST1   SUN
1.0        0.00           0.00
                      320-1072-01                                            53 11/20/97 PO   SUNTEST1   SUN
1.0        0.00           0.00
                      X132P                                                  49 11/19/97 PO   ken1       SUN
4.0        0.00           0.00
                      A14-UBA1-9S-128EB                                      49 11/19/97 PO   ken1       SUN
2.0    9,097.00      18,194.00
                      MTSUP                                                  52 11/19/97 PO   qaz1       CMC
2.0    2,108.70       4,217.40
                      98-202-300                                             52 11/19/97 PO   qaz1       CMC
3.0      487.00       1,461.00
004024                                                                       41 06/12/97 PO   TIMTEST01  MBA
100.0        6.81         681.00
004024                                                                       41 06/12/97 PO   TIMTEST01  MBA
100.0        6.81         681.00
370-2040-03                                                                  43 11/19/97 PO   PMA0005349 SUN
2.0        0.00           0.00
```

370-2040-03							
1.0	0.00	0.00	43	11/19/97	PO	PMA0005349	SUN
370-2102-01							
1.0	0.00	0.00	43	11/19/97	PO	PMA0005349	SUN
540-2942-02							
100.0	125.00	12,500.00	41	06/12/97	PO	TIMTEST03	SUN
540-2942-02							
100.0	125.00	12,500.00	41	06/12/97	PO	TIMTEST03	SUN
7005-01							
2.0	1.00	2.00	45	08/27/97	PO	EDF	AAC
78325045215							
10.0	14.00	140.00	44	11/13/97	PO	0000000007	BDC
86133A03006							
50.0	5.90	295.00	44	11/13/97	PO	0000000007	BDC
A14-UBA1-9S-128EB							
1.0	14,097.00	14,097.00	43	11/19/97	PO	PMA0005349	SUN
ABAH32P1200R							
5.0	175.00	875.00	48	11/18/97	PO	TIM1	BDC
DB1385							
5.0	1,558.02	7,790.10	48	11/18/97	PO	TIM1	BDC
SK-540							
1.0	0.000	0.00	39	05/25/97	CR		
SK-540							
1.0	0.000	0.00	39	05/25/97	CR		
SOLS-C							
1.0	60.00	60.00	43	11/19/97	PO	PMA0005349	SUN
X1025A							
1.0	1,500.00	1,500.00	43	11/19/97	PO	PMA0005349	SUN
X132P							
4.0	0.00	0.00	43	11/19/97	PO	PMA0005349	SUN
X311L							
1.0	0.00	0.00	43	11/19/97	PO	PMA0005349	SUN
X5511A							
1.0	1,920.00	1,920.00	43	11/19/97	PO	PMA0005349	SUN
==========		==========					
518.0		98,734.30		Grand Total:			

ECS Development Facility
1616A McCormick Drive
Upper Marlboro MD 20774
USA

0000000016

SUN

SUN POC

ECS Development Facility
1616A McCormick Drive
Upper Marlboro MD 20774
USA

STOCK

12/04/97 1

Net 30 Destination

SUN POC.

1		01/18/98	3	3,150.00	9,450.00
DELIVER TO ==> EDF					
2		01/18/98	3	1,482.00	4,446.00
DELIVER TO ==> EDF					
3		01/18/98	8	3,384.00	27,072.00
DELIVER TO ==> EDF					

This is a test report
this is line 2

** STATE TAX TOTAL:	0.00
** LOCAL TAX TOTAL:	0.00
MISCELLANEOUS CHARGES:	0.00
PURCHASE ORDER TOTAL:	40,968.00

EOSDIS
EQUIPMENT RELOCATION REPORT
BY ECN NUMBER

NEW PARENT EIN: 00000038

ECN NUMBER: 00000013
DATE ON-SITE WARRANTY EXPIRES: 12/31/98
WARRANTY END DATE: 12/31/98
HTSC HELP CENTER PHONE: 1-800-ECS-DATA
HTSC HELP CENTER HOURS ARE: 08:00 - 17:00 EST
DATE RECEIVED: 02/18/94
CCR #: er3221

USER CONTACT Ambardekar
USER PHONE (301)925-0490
LOCATION:
BUILDING # 1616A
ROOM #: 2150
HOST NAME: HERON
TT: er455

INSTALL MFR	PRODUCT DESCRIPTION	MODEL/VERSION	PART NUMBER	SERIAL NUMBER	PART ECN	DATE
SUN	SPARCStation 10	10	S10TX-44-032-P4	403F1014	00000013	/ /
SUN	20 Inch Color Monitor		365-1330-01	9341FC2352	00000627	/ /
SUN	Keyboard	Type 5	320-1072-01	9329126935	EDF02869	/ /
SUN	Mouse - 3 Button	Type 5	370-1398-02	MSCFC027713	EDF02870	/ /
SUN	Speaker Box		540-2220-04	9403106143	EDF02871	/ /
SUN	1.05 GB HD		ST11200N	TS875348	EDF02872	/ /
SUN	Floppy - 3.5 Inch Drive - 1.44 MB		SUN-3.5FDD	9342852395	EDF02873	/ /
SUN	FDDI - Single Attach Adapter Card with S		X1005A	5011732009251	EDF02874	/ /
SUN	16 MB RAM (1 x 16 MB SIMM)		X116F		EDF02875	/ /
SUN	16 MB RAM (1 x 16 MB SIMM)		X116F		EDF02876	/ /
SUN	Motif Toolkit	1.2.2	MOT-P		EDF02877	/ /
SYB	SQL Svr/Opn Clin/C-SQL/C-SA Comp/SQL Mon	10.0.2	001-SP		EDF02878	/ /
TAR	DCE Base Services	1.0.2	DC-L710-BASE		EDF02879	/ /
TAR	DCE Application Development Tools	1.0.2	DC-L750-APPDEV		EDF02880	/ /
TAR	DCE Aplication Development for SunOS 4-1	1.0.2a	DCE APP DEV		EDF02881	/ /
TAR	DCE Aplication Development for SunOS 4-1	1.0.3	DCE APP DEV		EDF02882	/ /

EOSDIS
EQUIMENT RELOCATION REPORT
BY ECN NUMBER

TAR	DCE Base Services for Solaris		DCE BASE		EDF02883	/ /
TAR	DCE for Solaris 2.3	1.0.2a	DCE FOR SOL 2.3		EDF02884	/ /

TAR	DCE Hard Copy Manuals	1.0.3a	K13-DCE103A	EDF02885	/ /
TAR	DCE Hard Copy Manuals	1.0.3a	K13-DCE103A	EDF02886	/ /
SUN	Support - Spectrum Silver Support		SILVER PGM	EDF02887	/ /
TAR	Support - Software Support for Applicati		APP-DEV-SUPPORT	EDF02888	/ /
TAR	Support - Software Support for DCE Base		BASE-SERV-SUPP	EDF02889	/ /
TAR	Support - DCE Base Services Support		DC-S710-BASE	EDF02890	/ /
TAR	Support - DCE Application Development To	1.0.2	DC-S750-APPDEV	EDF02891	/ /
SUN	Solaris	2.2	SOL	EDF02892	/ /
SUN	Solaris	2.4	SOL	EDF02893	/ /

einstrep)
DATE: 12/04/97 TIME: 10:27

ECS Development Facility **EIN STRUCTURE REPORT** PAGE: 1

EINs: 00000001
Number of levels: 99
Explosion quantity: 1
Date of bill: 12/04/97
ote1: This is a test!

Parent EIN: 00000001 Desc: INDGO XS Graphics Workstation
MFG Part: WB-R50XS-1G32 Desc: INDGO XS Graphics Workstation
Active date: **/**/** Inactive date: **/**/**

QUANTITY PER	LEVEL	ACTIVE DATE	INACTIVE DATE	EIN	MFG PART	CONTROL ITEM ID	MODEL/VERSION
1				00000002	D3-M92A		HL7965KW-SG
0.0000		11/22/97	**/**/**				
				19 Inch Color Monitor	19 Inch Color Monitor		
1				00000003	P3-T13D		
0.0000		11/22/97	**/**/**				
				Tape Drive - 1.3 GB -	Tape Drive - 1.3 GB - 4 MM		
1				00000211	71S7-30DCC3		
0.0000		11/22/97	**/**/**				
				2.5 GB HD - Single Enc	2.5 GB HD - Single Enclosure 6400 RPM		
1				NSI02711	020404		
0.0000		11/22/97	**/**/**				
				10 Base T Transceiver	10 Base T Transceiver		
1				NSI02712	MSEPAD		
0.0000		11/22/97	**/**/**				
				Mouse Pads - 9x8 Inche	Mouse Pads - 9x8 Inches		
1				NSI02713	9150800		
0.0000		11/22/97	**/**/**				
				Mouse - 3 Button	Mouse - 3 Button		
1				NSI02714	9500801		
0.0000		11/22/97	**/**/**				
				Keyboard	Keyboard		
1				NSI02715	ETHNET T-T		
0.0000		11/22/97	**/**/**				
				Ethernet Thin-Thick	Ethernet Thin-Thick		
1				NSI02716	HU-C08C		
0.0000		11/22/97	**/**/**				
				8 MB SIMM RAM Chip	8 MB SIMM RAM Chip		
1				NSI02717	HU-C08C		
0.0000		11/22/97	**/**/**				
				8 MB SIMM RAM Chip	8 MB SIMM RAM Chip		
1				NSI02718	HU-C08C		
0.0000		11/22/97	**/**/**				
				8 MB SIMM RAM Chip	8 MB SIMM RAM Chip		

(einstrep)
DATE: 12/04/97 TIME: 10:27
ECS Development Facility **EIN STRUCTURE REPORT**
PAGE: 2
EINs: 00000001
Number of levels: 99
Explosion quantity: 1
Date of bill: 12/04/97
ote1: This is a test!

QUANTITY PER	ACTIVE DATE	INACTIVE DATE	LEVEL	EIN	MFG PART	CONTROL ITEM ID	MODEL/VERSION
1				NSI02719	HU-C08C		
0.0000	11/22/97	**/**/**					
				8 MB SIMM RAM Chip	8 MB SIMM RAM Chip		
1				NSI02720	P3-525S		
0.0000	11/22/97	**/**/**					
				Floppy Drive 3.5 Inch	Floppy Drive 3.5 Inch		
1				NSI02721	SD7-S10X		
0.0000	11/22/97	**/**/**					
				1 GB HD	1 GB HD		
1				NSI02722	062002		
0.0000	11/22/97	**/**/**					
				Tape Cart- 4 MM, 2 GB,	Tape Cart- 4 MM, 2 GB, 90 Meter		
1				NSI02723	IDL		4.0
0.0000	11/22/97	**/**/**					
				IDL	IDL		
1				NSI02724	M4-DPS		1.0.1
0.0000	11/22/97	**/**/**					
				Display Postscript Sys	Display Postscript Systems		
1				NSI02725	SC4-C++		3.2.1
0.0000	11/22/97	**/**/**					
				C++	C++		
1				NSI02726	SC4-DCE		1.0
0.0000	11/22/97	**/**/**					
				DCE Executive	DCE Executive		
1				NSI02727	SC4-FTN		4.0.1
0.0000	11/22/97	**/**/**					
				Fortran 77	Fortran 77		
1				NSI02728	SC4-IDO		5.2
0.0000	11/22/97	**/**/**					
				IRIS Development Optio	IRIS Development Option + Challenge		
1				NSI02729	SC4-NFS		4.0.1
0.0000	11/22/97	**/**/**					
				Network File System	Network File System		
1				NSI02730	M4-GLGT		4.1
0.0000	11/22/97	**/**/**					
				Graphics Library Docum	Graphics Library Documentation		
1				NSI02731	M4-MOTIF		2.0.1
0.0000	11/22/97	**/**/**					
				Motif Developers Docum	Motif Developers Documentation		

```
     1              NSI02732              M4-UDS                                                    4.0.1
0.0000   11/22/97  **/**/**
           IRIX Program Network  IRIX Program Network

     (einstrep)
DATE:  12/04/97   TIME:  10:27
     ECS Development Facility                                    EIN STRUCTURE REPORT
PAGE:  3
     EINs: 00000001
Number of levels: 99
     Explosion quantity: 1
Date of bill: 12/04/97
     ote1:  This is a test!


QUANTITY   ACTIVE    INACTIVE
     LEVEL          EIN                   MFG PART                          CONTROL ITEM ID       MODEL/VERSION
PER   DATE      DATE
      ============   ====================  ================================  ====================  ========================
============   ========  ========
     1              NSI02733              M4-X113D
0.0000   11/22/97  **/**/**
           XWindows Software DocuXWindows Software Documentation
     1              NSI02734              MAUC
0.0000   11/22/97  **/**/**
           Support - fees - Unix-Support - fees - Unix- DEC
     1              NSI02735              SUPU
0.0000   11/22/97  **/**/**
           Support - Extended SupSupport - Extended Support
     1              NSI02736              SUPU
0.0000   11/22/97  **/**/**
           Support - Extended SupSupport - Extended Support
     1              NSI02737              SERVICE
0.0000   11/22/97  **/**/**
           Support - Software MasSupport - Software Master Contract
     1              NSI02738              SGI 200
0.0000   11/22/97  **/**/**
           SGI Node Locked IDL LiSGI Node Locked IDL License
     1              NSI02739              SC4-W4D
0.0000   11/22/97  **/**/**
           IRIX                  IRIX
     1              NSI02740              026-0903-005                                              5.2
0.0000   11/22/97  **/**/**
           IRIX OS UPD           IRIX OS UPD
     1              NSI02741              026-7245-004                                              5.2
0.0000   11/22/97  **/**/**
           IRIS Development OptioIRIS Development Options UPD
     1              NSI02742              026-7246-004                                              5.2
0.0000   11/22/97  **/**/**
           Network File Systems UNetwork File Systems UPD
     1              NSI02743              026-7247-004                                              3.2.1
0.0000   11/22/97  **/**/**
           C++ Programming Lan. CC++ Programming Lan. Compliler UPD
     1              NSI02744              026-7249-005                                              4.0.1
0.0000   11/22/97  **/**/**
           Fortran 77 Compiler UPFortran 77 Compiler UPD
```

```
     There are 37 components in this bill.
      ------------------------------------------------------------------------------------------------------------------------
--------------------------------
```

(imtransr8) DATE: 12/04/97 TIME: 10:33

ECS Development Facility **TRANSACTION HISTORY BY EIN** PAGE: 1

EIN	DESCRIPTION	ARCHIVE	RELOCATE	SHIP	RECVD	TRANS
00000013	SPARCStation 10	0.00	1.00	0.00	0.00	0.00
00000225	Tape Drive - 5 GB - 4 MM	1.00	1.00	1.00	0.00	1.00
00000434	SPARCStation 20-50 SX	2.00	1.00	3.00	0.00	2.00
00000435	20 Inch Color Monitor	3.00	1.00	4.00	0.00	3.00
00000437	Small Uninteruptable Powe	4.00	1.00	5.00	0.00	4.00
EDF00000000058		5.00	1.00	6.00	0.00	5.00
EDF06081	Keyboard	6.00	1.00	7.00	0.00	6.00
EDF06083	16 MB RAM (1 x 16 MB SIMM	7.00	1.00	8.00	0.00	7.00
EDF06084	16 MB RAM (1 x 16 MB SIMM	8.00	1.00	9.00	0.00	8.00
EDF06085	32 MB RAM (1x32 MB SIMM)	9.00	1.00	10.00	0.00	9.00
EDF06086	Country Kit	10.00	1.00	11.00	0.00	10.00
EDF06087	1.05 GB HD - Internal	11.00	1.00	12.00	0.00	11.00
EDF06088	1.05 GB HD	12.00	1.00	13.00	0.00	12.00
EDF06089	Motif Toolkit	13.00	1.00	14.00	0.00	13.00
EDF06090	SPARCWorks Professional C	14.00	1.00	15.00	0.00	14.00
EDF06091	SPARCWorks	15.00	1.00	16.00	0.00	15.00
EDF06092	DCE Base Services	16.00	1.00	17.00	0.00	16.00
EDF06093	SQL Server Utility Progra	17.00	1.00	18.00	0.00	17.00
EDF06094	Open Client Open Server S	18.00	1.00	19.00	0.00	18.00
EDF06095	Open Client Open Server I	19.00	1.00	20.00	0.00	19.00
EDF06096	SQL Server Install Guide	20.00	1.00	21.00	0.00	20.00
EDF06097	Replication Server Instal	21.00	1.00	22.00	0.00	21.00
EDF06098	System Admin Guide Supple	22.00	1.00	23.00	0.00	22.00
EDF06099	SQL Server Error Messages	23.00	1.00	24.00	0.00	23.00
EDF06100	Connectivity Doc Set	24.00	1.00	25.00	0.00	24.00
EDF06101	DEC OSF Open Client OpenS	25.00	1.00	26.00	0.00	25.00
DF06102	Replication Server Docume	26.00	1.00	27.00	0.00	26.00

EIN	DESCRIPTION	ARCHIVE	RELOCATE	SHIP	RECVD	TRANS
EDF06103	Replication Server Rls Bu	27.00	1.00	28.00	0.00	27.00
EDF06104	Rls Bulletin Replication	28.00	1.00	29.00	0.00	28.00
EDF06105	Support - Motif Toolkit S	29.00	1.00	30.00	0.00	29.00
EDF06106	Support - Spectrum Silver	30.00	1.00	31.00	0.00	30.00
EDF06107	Support - DCE Base Servic	31.00	1.00	32.00	0.00	31.00
EDF06108	SPARCWorks Professional C	32.00	1.00	33.00	0.00	32.00
EDF06109	Solaris	33.00	1.00	34.00	0.00	33.00

(imtransr5) DATE: 12/04/97 TIME: 10:33

ECS Development Facility **TRANSACTIONS FOR SPARES** PAGE: 1

		DATE	TIME	OEM PART	FROM LOCN	CUSTOMER ID	VENDOR ID	QUANTITY	EXTENDED VALUE
EDF	3,957	12/04/97	00:00	00000434	EDF			1.0	0.00
EDF	3,958	12/04/97	00:00	00000434	EDF			1.0	0.00
EDF	3,960	12/04/97	00:00	00000434	EDF			1.0	0.00
EDF	3,993	12/04/97	00:00	00000434	JPL1			1.0	0.00
EDF	4,026	12/04/97	00:00	00000434	EDF			1.0	0.00
EDF	4,060	12/04/97	00:00	00000434	ARC			1.0	0.00

(imtransr5) DATE: 12/04/97 TIME: 10:33
ECS Development Facility **TRANSACTIONS FOR CONSUMABLES** PAGE: 1

		DATE	TIME	OEM PART	FROM LOCN	CUSTOMER ID	VENDOR ID	QUANTITY	EXTENDED VALUE

(screen wostatr) DATE: 12/04/97
TIME: 10:51
ECS Development Facility **WORK ORDER STATUS**
PAGE: 1
Parent EIN: * F0000067 All Statuses

Work Order: EDF0000067 Status:
Parent EIN: 00000001
OEM Part: WB-R50XS-1G32
OEM Desc: INDGO XS Graphics Workstation
Location: NSIDC Building: NSIDC
Room: 253
User: Name:

RUN DATE: 12/04/97
Page No: 1

EOSDIS
EQUIPMENT TRANSFER/RECEIPT REPORT
BY ECN NUMBER

ECN NUMBER: 00000434
USER CONTACT: Gallagher
DATE ON-SITE WARRANTY EXPIRES: 11/16/89
USER PHONE: (301)925-0733
WARRANTY END DATE: 11/16/89
LOCATION: ECS Development F
HTSC HELP CENTER PHONE: 1-800-ECS-DATA
BUILDING #: 1616A
HTSC HELP CENTER HOURS ARE: 08:00 - 17:00 EST
ROOM #:
DATE RECEIVED: 12/01/94
HOST NAME: DEEPSEA
CCR #: 12qaaq
TT: 03qaaq

INSTALL MFR	PRODUCT DESCRIPTION	MODEL/VERSION	PART NUMBER
SERIAL NUMBER	PART ECN DATE		
SUN	SPARCStation 20-50 SX	20-50 SX	S20SX-50
00000434	/ /		
SUN	Tape Drive - 5 GB - 4 MM		X822A
00000225	/ /		
SUN	20 Inch Color Monitor		365-1324-01
00000435	/ /		
TLI	Small Uninteruptable Power Supply (UPS)		BC-1250
00000437	/ /		
SUN	Mouse - 3 Button	Type 5	370-1398-02
EDF000000000	/ /		
SUN	Keyboard	Type 5	320-1072-01
EDF06081	/ /		
SUN	16 MB RAM (1 x 16 MB SIMM)		X116P
EDF06083	/ /		
SUN	16 MB RAM (1 x 16 MB SIMM)		X116P
EDF06084	/ /		
SUN	32 MB RAM (1x32 MB SIMM)		X132P
EDF06085	/ /		
SUN	Country Kit	Type 5	X3540A
EDF06086	/ /		
SUN	1.05 GB HD - Internal		X546A
EDF06087	/ /		
SUN	1.05 GB HD		X649A
EDF06088	/ /		
SUN	Motif Toolkit	1.2.2	MOT-P
EDF06089	/ /		
SUN	SPARCWorks Professional C++	4.0.1	SCP-P
EDF06090	/ /		
SUN	SPARCWorks	3.0.1	SW-S
EDF06091	/ /		
TAR	DCE Base Services	1.0.2	DC-L710-BASE
EDF06092	/ /		
SYB	SQL Server Utility Programs Unix		30475
EDF06093	/ /		
SYB	Open Client Open Server Supplement		32695
EDF06094	/ /		
SYB	Open Client Open Server Install Guide		34316
EDF06095	/ /		
SYB	SQL Server Install Guide		34541
EDF06096	/ /		
SYB	Replication Server Install Guide		34921
EDF06097	/ /		
SYB	System Admin Guide Supplement		35291
EDF06098	/ /		
SYB	SQL Server Error Messages		38574
EDF06099	/ /		
SYB	Connectivity Doc Set		49040
EDF06100	/ /		

```
SYB    DEC OSF Open Client OpenServer Documenta                          49622
EDF06101      /  /
SYB    Replication Server Documentation Set                              49800
EDF06102      /  /
SYB    Replication Server Rls Bull Update                                71016
EDF06103      /  /
SYB    Rls Bulletin Replication Server                                   72077
EDF06104      /  /
SUN    Support - Motif Toolkit Support                                   MOT-LIC
EDF06105      /  /
SUN    Support - Spectrum Silver Support                                 SILVER PGM
EDF06106      /  /
TAR    Support - DCE Base Services Support                               DC-S710-BASE
EDF06107      /  /
SUN    SPARCWorks Professional C++ License to U                          SCP-LIC
EDF06108      /  /
SUN    Solaris                                    2.3                    SOL
EDF06109      /  /
```

This page intentionally left blank.